CHEMICAL CHARACTER *of* SURFACE WATERS

OF SOUTH CAROLINA 1945-60

By
K. F. HARRIS

BULLETIN NO. 16C

SOUTH CAROLINA
STATE DEVELOPMENT BOARD

Prepared Cooperatively by the Geological Survey of the United States
Department of the Interior

Columbia
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LETTER OF TRANSMITTAL

Columbia, South Carolina

The Honorable Ernest F. Hollings
Governor of South Carolina

Sir:

The State Development Board presents to you Bulletin No. 16C on the "Chemical Character of Surface Waters of South Carolina."

The progress of a state is dependent in a large measure on the availability of its natural resources. One of the most valuable is water. It is essential for the public welfare and the economic development of the State. In order to satisfy present and future requirements, it is necessary to know the quantity and quality of surface waters in the State.

This publication is the third in a series of reports on the chemical character of surface waters in South Carolina. It incorporates data which will be helpful in answering some of the questions about water resources in the State.

Sincerely,

W. W. HARPER
Director

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K. F. HARRIS

INTRODUCTION

This report brings together into one volume basic data on the chemical quality of surface waters in South Carolina from 1945 to 1960[1]. Also included are data for stations located in Georgia on streams forming the boundary line between the two states and for stations located on streams flowing into the state from North Carolina.

Satisfactory water supplies are necessary for the economic growth of a state. The chemical quality of water determines its usefulness for industrial, municipal, and agricultural purposes. The importance of basic chemical data on water increases in proportion to the increase in water use. Because of the accelerated growth of population together with attendant expansion of industrial, municipal, and agricultural development, increasing demands are being made on the water supplies of South Carolina. Many new and expanding industries are using substantial quantities of water. Also, irrigation requires large quantities of water of acceptable chemical quality. Nearly all municipalities in South Carolina are planning or are constructing additional water facilities, especially in areas of urbanization. Thus, these basic data should be invaluable to State officials concerned with present and future water-supply requirements in South Carolina.

In 1945 the South Carolina Development Board and the U. S. Geological Survey began a cooperative study to define the chemical quality of the surface waters of South Carolina. During the first year of investigation, one daily station was in operation and 40 miscellaneous water samples were col-

[1] Previous reports: Chemical character of surface waters of South Carolina, 1945-47 (Lamar, 1948); Chemical character of surface waters of South Carolina, 1945-50 (Pauszek, 1951); Chemical character of surface waters of South Carolina, 1945-55 (Billingsley, 1956).

lected. The following year, two daily stations were operated. Three locations were selected each year from 1947-1950 for the operation of monthly stations and during this period approximately 100 miscellaneous samples were collected. For water years 1951-1958, four monthly stations were established each year. Six monthly stations were operated in 1959-1960. Approximately 75 miscellaneous water samples were collected each water year from 1951-1960.

A salt-water encroachment study was made on the Combahee River near Yemassee from October 1951 through May 1957. This study was designed to determine the extent of salt-water encroachment in the river.

In January 1958 two daily stations were established on the Edisto River near Jacksonboro to study salt-water encroachment. Longitudinal study of the river by boat revealed complex problems of salt intrusion. Because of tidal inflow and outflow from the North Edisto River through the intracoastal waterway, the dissolved-solids content of the river varies considerably through a tidal cycle.

Water-temperature data are important in the development of industrial and municipal water supplies. Temperature measurements were made for all daily and monthly samples. Continuous temperature records are being made at three locations in the Coastal Plain. Since 1950, water temperatures have been obtained when regular and supplemental discharge measurements were taken and when miscellaneous water samples for chemical analysis were collected.

ACKNOWLEDGMENTS

Appreciation for cooperation and assistance in the continuation of this investigation is expressed to the Director of the South Carolina State Development Board and his staff. Engineers of the Surface Water Branch, U. S. Geological Survey, Columbia, S. C., under the direction of Albert E. Johnson, district engineer, assisted in this investigation by collecting most of the samples of water, furnishing the discharge records of the streams, and furnishing recording temperature data. The chemical analyses were made by chemists of the Quality of Water Branch, U. S. Geological Survey.

COLLECTION OF BASIC DATA

Samples of water were collected daily and monthly for the periods indicated at locations given in map index. The majority of samples were collected at or near surface-water gaging stations. Thus, available water-discharge data are tabulated with chemical analyses. Daily samples were usually collected about the same time each day. In the eary part of the investigation, three composite samples were prepared each month. These composited samples represent samples taken the first 10 days, the second 10 days, and the remainder of the month. Later, specific conductance was determined on all daily samples, and composite samples were made by mixing equal quantities of the daily samples based on the concentration of dissolved solids as indicated by specific conductances. A chemical analysis was made of each composited sample. Samples other than daily were collected and analyzed without being composited.

EXPRESSION OF RESULTS

Temperature is expressed in degrees Fahrenheit (°F) and represents the temperature of the water at the time the sample was collected.

Continuous records of water temperature were recorded by ethyl alcohol-actuated thermographs attached to water stage recorders. Maximum and minimum temperatures are reported for each day.

Dissolved mineral constituents are reported in parts per million (ppm). A part per million is a unit weight of a constituent in a million unit weights of water. In terms of per cent, one part per million is equivalent to one ten-thousandth of one per cent (0.0001%). Results given in parts per million can be converted to grains per United States gallon by dividing by 17.12.

Hardness of water, which is expressed as calcium carbonate ($CaCO_3$), is calculated from the equivalent weights of calcium and magnesium for complete analyses and is determined directly by titrating with a sequestering agent for the partial analyses in which neither calcium nor magnesium is determined as such, but as a combination of these two ele-

ments. The hardness caused by calcium and magnesium ions, equivalent to the carbonate and bicarbonate ions, is called carbonate hardness; the hardness in excess of this quantity is called non-carbonate hardness. Water having a hardness of 60 ppm or less is considered soft; 60 to 120 ppm moderately hard; 121 to 180 ppm hard; and more than 180 ppm very hard.

Color is expressed in units of the platinum-cobalt scale. A unit of color is that produced by one milligram of dissolved platinum per liter of water.

Hydrogen-ion concentration, which is expressed as pH, is the negative logarithm of the number of moles of ionized hydrogen per liter of water. Ordinarily, water having a pH of 7.0 is regarded as neutral; a pH lower than 7.0 indicates acidic properties, and a pH higher than 7.0 indicates alkalinity.

The discharge of a stream is reported as the number of cubic feet of water that passes a given point each second (cfs). The mean discharge is the sum of the daily discharges of the days represented in the composite period divided by the number of days in the period. If no composite is made and mean discharge is reported, this denotes the mean for the day the sample was collected. Instantaneous discharge usually represents a measured discharge at the time the sample was taken.

GENERAL QUALITY OF SURFACE WATER

Quality of water is controlled by many factors, both natural and man-made. The more important factors are geographic features, geology, river discharge, winds, tides, impoundment, and industrial, municipal, and agricultural pollution.

South Carolina is divided into three physiographic sections: the Blue Ridge Province, Piedmont Province, and Coastal Plain. The mountainous and hilly portion covers about 11,000 square miles and the coastal area covers about 20,000 square miles. These geographic features control the runoff rate of surface water and hence the amount of time a water stays in contact with rocks and soils.

The Blue Ridge and Piedmont Provinces are underlain by hard, relatively insoluble crystalline rocks—mostly granites, gneisses, and schists. Because of the topography and the insolubility of host rocks, surface water in these areas contain small amounts of dissolved mineral matter. The Coastal Plain is underlain with sedimentary deposits—mostly sand, clay, limestone, and marl. Solubility of these deposits and the slow runoff rate of surface water in this area tend to increase the concentrations of dissolved minerals.

Quality of water in coastal areas is controlled by tides, winds, and river discharge. Tides and winds force ocean water many miles inland and make the water unusable for most purposes. During periods of low discharge, tides and certain winds exert a greater effect in an inland direction.

Natural surface water in South Carolina was of good chemical quality during the period 1945-60. However, because of municipal and industrial growth, an increasing amount of pollutants are being added to streams each year. Inadequate treatment of these wastes results in water unfit for immediate use for public water supply, industrial supply, irrigation, fish and wildlife, and recreational activities. Improper farming practices cause pollution from insecticides, fertilizers, and silt.

A table showing the significance of dissolved mineral constituents in natural water follows:

SIGNIFICANCE OF DISSOLVED MINERAL CONSTITUENTS OF NATURAL WATER

Constituent	Source or Cause	Significance
Silica (SiO_2)	Dissolved from practically all rocks and soils, usually in small amounts from 1-30 ppm. High concentrations, as much as 100 ppm, generally occur in highly alkaline waters.	Forms hard scale in pipes and boilers. Carried over in steam of high pressure boilers to form deposits on blades of steam turbines. Inhibits deterioration of zeolite-type water softeners.
Iron (Fe)	Dissolved from practically all rocks and soils. May also be derived from iron pipes, pumps, and other equipment. More than 1 or 2 ppm of soluble iron in surface waters usually indicate acid wastes from mine drainage or other sources.	On exposure to air, iron in ground water is oxidized to reddish-brown sediment. More than about 0.3 ppm stains laundry and utensils reddish-brown and is objectionable for food processing, beverages, dyeing, bleaching, ice manufacture, brewing, and other processes. U. S. Public Health Service (1961) drinking-water standards state that iron should not exceed 0.3 ppm. Larger quantities cause unpleasant taste and favor growth of iron bacteria.
Manganese (Mn)	Dissolved from some rocks and soils. Not so common as iron. Large quantities often associated with high iron content and with acid waters.	Same objectionable features as iron. Causes dark brown or black stain. Drinking-water standards provide that manganese should not exceed 0.05 ppm.

Constituent	Source or Cause	Significance
Calcium (Ca) and Magnesium (Mg)	Dissolved from practically all soils and rocks, but especially from limestone, dolomite, and gypsum. Calcium and magnesium are found in large quantities in some brines. Magnesium is present in large quantities in sea water.	Cause most of the hardness and scale-forming properties of water; soap consuming. Water low in calcium and magnesium is desired in electroplating, tanning, dyeing, and in textile manufacturing.
Sodium (Na) and Potassium (K)	Dissolved from practically all rocks and soils. Found also in ancient brines, sea water, some industrial brines, and sewage.	Large amounts, in combination with chloride, give a salty taste. Moderate quantities have little effect on the usefulness of water for most purposes. Sodium salts may cause foaming in steam boilers and a high sodium ratio may limit the use of water for irrigation.
Bicarbonate (HCO_3) and Carbonate (CO_3)	Action of carbon dioxide in water on carbonate rocks such as limestone and dolomite.	Bicarbonate and carbonate cause alkalinity. Bicarbonates of calcium and magnesium decompose in steam boilers and hot water facilities to form scale and release corrosive carbon-dioxide gas. In combination with calcium and magnesium cause carbonate hardness.
Sulfate (SO_4)	Dissolved from rocks and soils containing gypsum, iron sulfides, and other sulfur compounds. Usually present in mine water and in some industrial wastes.	Sulfate in water containing calcium forms hard calcium sulfate scale in steam boilers. In large amounts, sulfate in combination with other ions gives bitter taste to water. Some calcium sulfate is considered beneficial in the brewing process. Drinking-water standards recommend that the sulfate content should not exceed 250 ppm.

Constituent	Source or Cause	Significance
Chloride (Cl)	Dissolved from rocks and soils. Present in sewage and found in large amounts in ancient brines, sea water, and industrial brines.	In large amounts in combination with sodium gives salty taste to drinking water. In large quantities increases the corrosiveness of water. Drinking-water standards recommend that the chloride content should not exceed 250 ppm.
Fluoride (F)	Dissolved in minute quantities from most rocks and soils.	Fluoride in drinking water reduces the incidence of tooth decay when the water is consumed during the period of enamel calcification. However, it may cause mottling of the teeth depending on the concentration of fluoride, the age of the child, amount of drinking water consumed, and susceptibility of the individual. (Maier, F. J., 1950, Fluoridation of public water supplies, Jour. Am. Water Works Assoc., v. 42, part 1, p. 1120-1132.)
Nitrate (NO_3)	Decaying organic matter, sewage, and nitrates in soil.	Concentrations much greater than the local average may suggest pollution. There is evidence that more than about 45 ppm of nitrate (NO_3) may cause a type of methemoglobinemia in infants, sometimes fatal. Water of high nitrate content should not be used in baby feeding (Maxcy, K. F., 1950, Nat. Research Council, Bull. San. Eng., p. 265, App. D). Nitrate is helpful in reducing intercrystalline cracking of boiler steel, but it encourages growth of algae and other organisms that produce undesirable tastes and odors.

Quality Conditions

In general, the chemical quality of surface water in South Carolina is good. Exceptions are found in those streams used by industry and municipalities for dumping waste materials. Most streams are low in dissolved-solids content, but some contain objectionable amounts of color, which is reported as organic matter.

From 1945 to 1960, sampling points were established in every river basin in the State. A brief description of each basin and the type of water found follow.

COMBAHEE RIVER BASIN

Headwaters of this basin rise in Barnwell County and flow in a southeasterly direction to the Atlantic Ocean. Samples were collected at six stations during the period of record.

In the upper part of the basin, water is of excellent chemical quality. Further downstream, ground-water inflow from marl beds increases the calcium and bicarbonate content during normal and below normal flows. In the coastal region, studies have shown that tidal conditions occur upstream from U. S. Highway 17-A near Yemassee and that salt-water encroachment has been observed approximately 16 miles upstream from U. S. Highway 17.

COOPER RIVER BASIN

Lake Moultrie is the headwaters for the Cooper River Basin and forms the Cooper River, which flows in a southerly direction into the Atlantic Ocean. The basin has two sampling stations, which are below the outlet of Lake Moultrie.

Water from these two locations was of good chemical quality except during periods when variations in the amount of sodium salts indicated municipal or industrial pollution.

EDISTO RIVER BASIN

The Edisto River Basin originates in the Piedmont Province between Columbia and Aiken. Except for the small

area in the headwaters, the basin lies in the Coastal Plain and has a total drainage area of 2,983 square miles.

In the headwaters of the basin, the water was of excellent chemical quality and had little color; but progressing downstream toward the Atlantic Ocean, the quality deteriorated because of swamp drainage. In the lower part of the basin, tidal conditions occur upstream past Jacksonboro; however, encroachment of salt water did not occur at the upper sampling station near Jacksonboro. At the lower station, approximately four miles downstream, salinity in varying concentrations was found most of the time during the period of station operation. The change in chemical quality between the upper and lower station is shown in Figure 1, which is a cumulative frequency curve for conductance of daily samples. The percentage of time that a conductance is exceeded or equaled can be compared between the two curves.

Figure 2 is a cumulative frequency curve for temperatures of maximum and minimum continuous measurements from South Fork Edisto River near Denmark. The curve shows percentage of time a specific temperature was exceeded or equaled during the period November 1956-September 1960.

PEE DEE RIVER BASIN

Streams in this basin rise in Virginia and flow through North Carolina as the Yadkin River. The total drainage area of 16,340 square miles is the second largest on the Atlantic Coast. The basin has 20 sampling stations.

Tributaries of the Little Pee Dee River rise in North Carolina and drain swamp areas that cause the water to contain high percentages of organic matter. Except for periods when pollutants as sodium salts appear in the main stem and in some tributaries, dissolved-solids content was low throughout the basin. Tidal conditions exist in the Black, Pee Dee, and Little Pee Dee Rivers but no studies have been made to determine either the extent of salt-water encroachment or the maximum conditions under which encroachment would occur.

Figure 3 is a cumulative frequency curve for temperatures of maximum and minimum continuous measurements

from Lynches River at Effingham. The curve shows percentage of time a specific temperature was exceeded or equaled during the period October 1954-September 1960.

SANTEE RIVER BASIN

All principal tributaries in this basin rise in North Carolina and flow south into South Carolina. The total drainage area is 15,700 square miles. The larger tributaries in this basin have impounded reservoirs, which are used for flood control and production of power. This basin has 81 sampling stations.

In the main stem of the Catawba, Wateree, Santee, and Broad Rivers, the water was low in dissolved solids and of good chemical quality. The uniformity of quality is attributed to impoundment in the many reservoirs in the basin. Industrial and municipal pollution was evident in many tributaries to the Broad River.

SAVANNAH RIVER BASIN

The western border of South Carolina is formed by the Savannah River, which has a drainage area of 10,579 square miles. During the period of record, samples were collected at 31 stations.

In the mountainous areas, where runoff was rapid, water had less chance of being influenced by environmental factors and was of excellent chemical quality. In some tributary streams, pollution caused minor quality deterioration. These conditions were localized, and the diluting effect of water in the main stem resulted in a water low in dissolved solids. Water below Clark Hill Reservoir had a slightly higher dissolved-solids content. Although quality of water in the lower part of the basin is affected by salt-water encroachment, no recent studies have been made to determine the extent of encroachment.

Figure 4 is a cumulative frequency curve for temperatures of maximum and minimum continuous measurements from Savannah River at Burtons Ferry Bridge near Millhaven, Georgia. The curve shows percentage of time a specific temperature was exceeded or equaled during the period January 1956-September 1960.

WACCAMAW RIVER BASIN

The Waccamaw River rises in Bladen County, North Carolina, and has a drainage area of 1,520 square miles. The basin has two sampling stations.

Although the surface water in this basin contained only small amounts of dissolved mineral matter, its quality was impaired by the highly colored water draining from the swamp areas. Tidal conditions occur in the lower part of the basin, but no investigations have been made to determine the extent of salt-water encroachment.

Arrangement of Data

Tables of analyses and temperatures are arranged alphabetically by basin and alphabetically by stream under each basin. The headings for each daily and monthly sampling station include a description of the location, drainage area above station, and records available. In addition, the heading for each daily station includes extremes for dissolved solids, hardness, specific conductance, and temperatures. Extremes for lower station on Edisto River are for specific conductance and chloride only. Any additional information available on daily stations is noted under remarks. Miscellaneous analyses collected at same location as daily or monthly stations follow these tables. Other miscellaneous analyses are arranged alphabetically in a table that follows daily and monthly analyses.

After each table of daily analyses is a table of daily temperatures. Tables of maximum and minimum temperatures obtained at thermograph stations follow tables of analyses for these locations.

A map showing the sampling locations in South Carolina from 1945-1960 follows.

INDEX TO MAP OF SOUTH CAROLINA, FIGURE 5
SHOWING APPROXIMATE LOCATIONS OF SAMPLING STATIONS, 1945-60

Map No.	Stream and Location	Drainage Area in Sq. Mi.	Period of Record	Number of Analyses	Frequency of Sampling[a]
1.	Bailey Creek at Anderson	.....	1951	1	X
2.	Big Black Creek near McBee	108	1955/60	5	X
3.	Big Browns Creek at Union	.....	1951	1	X
4.	Big Creek at Williamston	.....	1955	1	X
5.	Big Generostee Creek near Starr	83[b]	1951/60	7	X
6.	Black Creek at Pageland	.....	1955	1	X
7.	Black Mingo Creek at Nesmith	130	1946/59	2	X
8.	Black River at Andrews	.....	1955	1	X
9.	Black River at Kingstree	1,260[b]	1946/58	5	X
10.	Broad River at Eau Claire	.....	1953	1	X
11.	Broad River at Richtex	4,850[b]	1946/58	4	X
	Do	4,850[b]	1958-60	25	M
12.	Broad River near Carlisle	2,790[b]	1946/60	18	X
	Do	2,790[b]	1947-48	12	M
13.	Broad River near Gaffney	1,490[b]	1946/60	18	X
	Do	1,490[b]	1949-50	12	M
14.	Broadway Creek near Anderson	26[b]	1948	1	X
15.	Buck Creek near Mayo	30[b]	1949	1	X

[a] D—Daily; M—Monthly; X—Miscellaneous; T—Thermograph.
[b] Approximately.

INDEX TO MAP OF SOUTH CAROLINA, FIGURE 5 — Continued

16.	Buffalo Creek near Blacksburg	176	1949/60	18	X
	Do	176	1952-53	12	M
17.	Bullock Creek near Sharon	84[b]	1947/60	19	X
18.	Bush River at Newberry	.....	1951	1	X
19.	Bushy Park Diversion Canal near Moncks Corner	.....	1957	3	X
	Do	.....	1957-58	12	M
20.	Campbell Limestone Quarry Pond at Gaffney	.....	1956	1	X
21.	Cane Creek near West Union	35[b]	1950/60	5	X
22.	Cane Savannah Creek near Sumter	49.5	1951	1	X
23.	Cannons Creek near Pomaria	48[b]	1950	1	X
24.	Catawba River at Fort Mill	.....	1956	1	X
25.	Catawba River near Catawba	.....	1960	1	X
26.	Catawba River near Rock Hill	3,050[b]	1946/56	4	X
	Do	3,050[b]	1957-60	36	M
27.	Cedar Creek at Society Hill	55[b]	1949/60	19	X
28.	Chauga River near Westminster	85[b]	1955/60	9	X
29.	Cherokee Creek near Gaffney	.....	1951/57	2	X
30.	Clark Hill Reservoir near McCormick	.....	1957	1	X
31.	Combahee River at Cherokee Landing near Yemassee	.....	1951-55	34	X
32.	Combahee River at Combahee Landing near Yemassee	.....	1951-55	33	X

33.	Congaree Creek at Cayce	136	1949/60	20	X
34.	Congaree Creek near Cayce	.....	1953	1	X
35.	Congaree River at Columbia	7,850[b]	1946/58	23	X
	Do	7,850[b]	1948-49	12	M
	Do	7,850[b]	1958-60	24	M
36.	Conneross Creek at Richland	40.6	1949/60	12	X
37.	Coosawhatchie River near Hampton	203	1946/58	5	X
38.	Coronaca Creek near Greenwood	37[b]	1948	1	X
39.	Coronaca Creek near Ninety Six	.....	1958	1	X
40.	Duncan Creek at Batesburg	.....	1955	1	X
41.	Duncan Creek at Clinton	.....	1951/59	2	X
42.	Edisto River at Canadys	1,870[b]	1950	1	X
43.	Edisto River at Charleston	.....	1951	1	X
44.	Edisto River at Summerville	.....	1955	1	X
45.	Edisto River near Branchville	1,720[b]	1950/60	12	X
	Do	1,720[b]	1949-50	12	M
46.	Edisto River near Givhans	2,730[b]	1946/60	9	X
47.	Edisto River near (Lower Station) Jacksonboro	2,870[b]	1958-60	45[c]	D
48.	Edisto River near (Upper Station) Jacksonboro	2,860[b]	1958-60	39	D
49.	Eighteenmile Creek at Central	.....	1956	1	X
50.	Eighteenmile Creek at Liberty	20.6	1955	1	X

[a] D—Daily; M—Monthly; X—Miscellaneous; T—Thermograph. [b] Approximately.
[c] Daily analyses for specific conductance, chloride, and color.

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51.	Eighteenmile Creek at Pendleton	53[b]	1947	1	X
52.	Enoree River at Whitmire	.....	1955	1	X
53.	Enoree River near Clinton	.....	1959	1	X
54.	Enoree River near Enoree	307	1946/60	16	X
	Do	307	1947-48	12	M
55.	Fairforest Creek near Union	183	1946/57	4	X
56.	First Branch at Johnston	.....	1956	1	X
57.	Fishing Creek near Fort Lawn	270[b]	1950/60	5	X
58.	Gills Creek near Columbia	65.7	1949/55	9	X
59.	Grove Creek near Piedmont	14.6	1948	1	X
60.	Island Creek near Mayo	14	1951	2	X
61.	Keowee River near Jocassee	148	1955/60	5	X
62.	Keowee River near Newry	455	1946/55	3	X
	Do	455	1953-54	12	M
63.	Kings Creek at Kings Creek	47.6	1949/60	10	X
64.	Kingstree Swamp Canal near Kingstree	57[b]	1951	2	X
65.	Lake Moultrie Tailrace near Moncks Corner	.....	1950-51	12	M
66.	Lakes Marion-Moultrie diversion canal near Pineville	.....	1946/59	5	X
67.	Lawson Fork Creek at Spartanburg	70[b]	1953/54	2	X
68.	Lightwood Knot Creek near Leesville	8.7[b]	1948	1	X
69.	Little Lynches River near Bethune	163	1951/60	14	X
70.	Little Pee Dee River at Galivants Ferry	2,790[b]	1946/60	8	X
	Do	2,790[b]	1950-51	12	M

71.	Little Pee Dee River near Dillon	524	1946/60	8	X
	Do	524	1952-53	11	M
72.	Little Pine Tree Creek at Camden	.....	1951	1	X
73.	Little River at Laurens	.....	1951	1	X
74.	Little River near Mount Carmel	217	1946/59	11	X
	Do	217	1953-54	11	M
75.	Little River near Silverstreet	230[b]	1953/60	10	X
76.	Little Saluda River at Saluda	90[b]	1950	1	X
77.	Long Cane Creek near Abbeville	68.6	1948/57	6	X
78.	Lynches River at Effingham	1,030[b]	1946/60	17	X
	Do	1,030[b]	1951-52	12	M
	Do	1,030[b]	1954-60	—	T
79.	Lynches River near Bethune	380[b]	1952/60	13	X
80.	Lynches River near Bishopville	675	1945-46	36	D
	Do	675	1949/60	16	X
	Do	675	1957-58	12	M
81.	Middle Tyger River at Lyman	68.3	1946/55	2	X
82.	Ninety Six Creek near Ninety Six	22[b]	1949/56	4	X
83.	North Fork Edisto River at Orangeburg	683	1946/58	13	X
	Do	683	1947-48	12	M
	Do	683	1958-60	23	M
84.	North Fork Edisto River near North	396	1950/60	14	X
85.	North Pacolet River at Fingerville	116	1946/60	6	X
	Do	116	1951-52	12	M

[a] D—Daily; M—Monthly; X—Miscellaneous; T—Thermograph.
[b] Approximately.

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86.	North Saluda River Reservoir near Greenville	.....	1959	1	X
87.	North Tyger River near Fairmont	44[b]	1951/60	9	X
88.	North Tyger River near Moore	162	1946/60	23	X
	Do	162	1948-49	12	M
89.	Pacolet River near Clifton	320	1946/60	7	X
90.	Pacolet River near Fingerville	212	1950/58	6	X
	Do	212	1952-53	12	M
	Do	212	1958-60	24	M
91.	Pee Dee River at Cheraw	7,320[b]	1951/55	2	X
92.	Pee Dee River at Peedee	8,830[b]	1949/60	17	X
	Do	8,830[b]	1948-49	12	M
93.	Pee Dee River near Mars Bluff	8,850[b]	1946	1	X
94.	Pee Dee River near Society Hill	7,980	1950/60	17	X
	Do	7,980	1953-54	12	M
95.	Rabon Creek at Laurens	.....	1951	1	X
96.	Ramsey Creek at Westminster	.....	1955	1	X
97.	Red Bank Creek at Red Bank	17.6	1950	1	X
98.	Red Bank Creek at Saluda	41[b]	1955	1	X
99.	Reedy River near Ware Shoals	228	1946/59	4	X
100.	Rocky Creek at Great Falls	194	1960	1	X
101.	Rocky Creek at McCormick	.....	1956	1	X
102.	Rocky River at Abbeville	.....	1958	1	X

103.	Rocky River near Anderson	32.8	1949/51	2	X
104.	Rocky River near Calhoun Falls	267	1950-59	10	X
105.	Salkehatchie River near Barnwell (Hwy. 64)	64.6	1946	1	X
106.	Salkehatchie River near Barnwell (Hwy. 3)	109	1949	1	X
107.	Salkehatchie River near Miley	341	1946/60	6	X
108.	Saluda River at Chappells	1,350[b]	1949/60	13	X
	Do	1,350[b]	1946-47	36	D
109.	Saluda River at Newberry	.....	1958	1	X
110.	Saluda River near Columbia	2,510[b]	1946/60	4	X
111.	Saluda River near Greenville	293	1946/60	7	X
	Do	293	1950-51	12	M
112.	Saluda River near Greenwood	.....	1951	1	X
113.	Saluda River near Irmo	.....	1955	1	X
114.	Saluda River near Pelzer	405	1952/60	6	X
	Do	405	1953-54	12	M
115.	Saluda River near Ware Shoals	569	1946/59	6	X
116.	Sandy River at Chester	.....	1951	1	X
117.	Sandy River near Leeds	100[b]	1949/57	7	X
118.	Sandy River at Sandy River	73[b]	1952	1	X
119.	Santee River near Jamestown	.....	1951	1	X
120.	Santee River near Pineville	14,700[b]	1955	1	X
	Do	14,700[b]	1951-52	12	M
121.	Santee River near Saint Stephen	.....	1951	1	X

[a] D—Daily; M—Monthly; X—Miscellaneous; T—Thermograph.
[b] Approximately.

INDEX TO MAP OF SOUTH CAROLINA, FIGURE 5 — Continued

122.	Savannah River at Augusta, Ga.	7,508	1949/60	12	X
	Do	7,508	1949-50	12	M
123.	Savannah River at Burtons Ferry Bridge near Millhaven, Ga.	8,650[b]	1956-60	—	T
	Do	8,650[b]	1949/60	4	X
124.	Savannah River near Calhoun Falls	2,876	1946/60	8	X
125.	Savannah River near Clyo, Ga.	9,850[b]	1958/60	3	X
126.	Savannah River near Iva	2,231	1954/60	7	X
	Do	2,231	1951-52	12	M
127.	Seneca River at Clemson	640[b]	1952/56	8	X
128.	Seneca River near Anderson	1,026	1946/56	4	X
129.	Shaw Creek at Aiken	.....	1958	1	X
130.	Shaw Creek near Eureka	50[b]	1946/60	14	X
131.	South Fork Edisto River near Denmark	720[b]	1946/60	9	X
	Do	720[b]	1950-51	12	M
	Do	720[b]	1956-60	—	T
132.	South Fork Edisto River near Montmorenci	198	1946/59	5	X
133.	South Pacolet River at Spartanburg	.....	1951	1	X
134.	South Saluda River near Greenville	.....	1951/59	2	X
135.	South Tyger River at Greer	.....	1951/58	2	X
136.	South Tyger River near Reidville	106	1949/59	4	X
137.	South Tyger River near Woodruff	174	1946/60	8	X
	Do	174	1952-53	12	M

138.	Stevens Creek near Modoc	545	1946/55	3	X
139.	Thicketty Creek at Thicketty	39[b]	1949/60	6	X
140.	Thompson Creek at Chesterfield	.....	1955	1	X
141.	Thompson Creek at Seneca	.....	1955	1	X
142.	Thompson Creek near Cheraw	266	1947/58	11	X
143.	Turkey Creek at Lancaster	.....	1953	1	X
144.	Turkey Creek at York	.....	1955	1	X
145.	Twelvemile Creek at Lexington	.....	1956	1	X
146.	Twelvemile Creek near Pickens	76.9	1949/57	2	X
147.	Tyger River near Delta	759	1950/57	12	X
148.	Tyger River near Woodruff	351	1950/55	2	X
149.	Vaughns Creek at Landrum	.....	1956	1	X
150.	Waccamaw River at Conway	.....	1958	2	X
151.	Waccamaw River near Longs	1,030[b]	1960	1	X
152.	Warrior Creek at Lanford	23[b]	1953/59	4	X
153.	Wateree River near Camden	5,070[b]	1946/60	16	X
	Do	5,070[b]	1946-47	36	D
154.	Wateree River near Eastover	5,540[b]	1951/57	8	X
	Do	5,540[b]	1957-60	35	M
155.	Waxhaw Creek near Springdell	50.1	1950	1	X
156.	Whitewater River at Jocassee	47.3	1958/60	3	X
157.	Wilson Creek near Iva	27[b]	1950	1	X
158.	Wilson Creek near Ninety Six	76[b]	1950/60	12	X

[a] D—Daily; M—Monthly; X—Miscellaneous; T—Thermograph.
[b] Approximately.

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(1) Lamar, W. L., 1948, Chemical character of surface waters of South Carolina 1945-47: South Carolina Research, Planning and Development Board and U. S. Geol. Survey, Bull. no. 16.

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(4) . . . Resources of South Carolina, 1955: State Development Board, Bull. no. 22.

(5) U. S. Public Health Service, 1961, Report of the advisory committee on revision of USPHS 1946 drinking-water standards: Am. Water Works Assoc. Jour., v. 53, no. 8, p. 935-945.

QUALITY OF WATER STATIONS IN SOUTH CAROLINA

Station and Location	Period of Record
Cooper River Basin	
Bushy Park Diversion Canal near Moncks Corner, S. C.	Monthly - 1957-58
Lake Moultrie Tailrace near Moncks Corner, S. C.	Monthly - 1950-51
Edisto River Basin	
Edisto River near Branchville, S. C.	Monthly - 1949-50
Edisto River near Jacksonboro, S. C. (Upper Station)	Daily - 1958-60
Edisto River near Jacksonboro, S. C. (Lower Station)	Daily - 1958-60
North Fork Edisto River at Orangeburg, S. C.	Monthly - 1947-48, 1958-60
South Fork Edisto River near Denmark, S. C.	Monthly - 1950-51 Thermograph - 1956-60
Pee Dee River Basin	
Little Pee Dee River at Galivants Ferry, S. C.	Monthly - 1950-51
Little Pee Dee River near Dillon, S. C.	Monthly - 1952-53
Lynches River at Effingham, S. C.	Monthly - 1951-52 Thermograph - 1954-60
Lynches River near Bishopville, S. C.	Daily - 1945-46 Monthly - 1957-58
Pee Dee River at Peedee, S. C.	Monthly - 1948-49
Pee Dee River near Rockingham, N. C.	Daily - 1959-60
Pee Dee River near Society Hill, S. C.	Monthly - 1953-54
Santee River Basin	
Broad River at Richtex, S. C.	Monthly - 1958-60
Broad River near Boiling Springs, N. C.	Daily - 1959-60
Broad River near Carlisle, S. C.	Monthly - 1947-48
Broad River near Gaffney, S. C.	Monthly - 1949-50
Buffalo Creek near Blacksburg, S. C.	Monthly - 1952-53
Catawba River near Rock Hill, S. C.	Monthly - 1957-60
Congaree River at Columbia, S. C.	Monthly - 1948-49, 1958-60
Enoree River near Enoree, S. C.	Monthly - 1947-48
North Pacolet River at Fingerville, S. C.	Monthly - 1951-52
North Tyger River near Moore, S. C.	Monthly - 1948-49
Pacolet River near Fingerville, S. C.	Monthly - 1952-53, 1958-60
Saluda River at Chappells, S. C.	Daily - 1946-47
Saluda River near Greenville, S. C.	Monthly - 1950-51
Saluda River near Pelzer, S. C.	Monthly - 1953-54
Santee River near Pineville, S. C.	Monthly - 1951-52
South Tyger River near Woodruff, S. C.	Monthly - 1952-53
Wateree River near Camden, S. C.	Daily - 1946-47
Wateree River near Eastover, S. C.	Monthly - 1957-60
Savannah River Basin	
Keowee River near Newry, S. C.	Monthly - 1953-54
Little River near Mount Carmel, S. C.	Monthly - 1953-54
Savannah River at Augusta, Georgia	Monthly - 1949-50
Savannah River at Burtons Ferry Bridge, S. C.	Thermograph - 1956-60
Savannah River near Iva, S. C.	Monthly - 1951-52
Waccamaw River Basin	
Waccamaw River at Freeland, N. C.	Monthly - 1959-60
Miscellaneous analyses of streams in South Carolina	1945-60
Combahee River Basin	
Combahee River at Cherokee Landing near Yemassee, S. C.	1951-55
Combahee River at Combahee Landing near Yemassee, S. C.	1951-55

COOPER RIVER BASIN

BUSHY PARK DIVERSION CANAL NEAR MONCKS CORNER, S. C.

LOCATION.--At bridge on State Highway 9, 10 miles south of Moncks Corner, Berkeley County.
DRAINAGE AREA.--No drainage area is applicable.
RECORDS AVAILABLE.--Chemical analyses: October 1957 to September 1958.

Chemical analyses, in parts per million, water year October 1957 to September 1958

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 1, 1957		6.9	0.10	7.9	2.3	13	2.0	34	11	15	0.2	0.8	96	29	0	127	6.5	40		
Nov. 8		8.3	.02	5.0	1.4	9.9	1.4	31	7.1	5.8	.1	.5	71	18	0	102	6.8	10		
Dec. 11		8.4	.00	4.4	2.2	7.5	1.6	28	7.0	6.0	.2	.6	53	20	0	83	6.7	40		
Jan. 15, 1958		9.5	.06	4.8	1.2	6.1	1.7	22	1.0	5.5	.0	1.6	69	17	0	72	6.4	140		
Feb. 11		8.7	.07	5.6	2.4	9.2	1.6	25	5.1	10	.1	1.4	77	24	4	98	6.4	120		
Mar. 19		9.2	.04	3.4	1.8	6.5	2.0	21	5.5	4.5	.0	1.1	47	16	0	64	6.5	15		
Apr. 3		7.4	.07	4.0	1.7	6.3	1.6	20	5.2	5.6	.2	1.0	52	17	1	84	6.5	60		
May 15		6.1	.15	5.2	2.4	7.7	1.4	25	6.2	8.5	.2	.9	67	23	2	86	6.4	80		
June 16		8.0	.08	6.5	1.6	6.7	2.1	28	3.4	7.6	.1	1.5	61	23	0	84	6.5	40		
July 17		8.5	.02	5.6	1.6	5.4	1.9	27	2.6	4.8	.2	.3	54	21	0	69	6.5	20		
Aug. 16		7.1	.01	7.6	1.8	8.7	1.9	32	4.5	11	.2	.4	68	26	0	96	6.9	15		
Sept. 15		8.7	.02	5.0	1.8	5.7	1.8	28	2.4	4.2	.0	.3	44	20	0	65	6.7	15		

Chemical analyses, in parts per million, of samples collected intermittently

Mar. 7, 1957		4.8	0.07	5.6	1.6	10	1.8	34	7.2	7.2	0.0	0.4	56	20	0	101	6.9	8		
Apr. 17		4.3	.11	5.8	2.2	9.7	1.3	30	8.3	8.5	.3	1.2	64	24	0	101	6.4	10		
June 14		6.3	.05	6.4	1.9	7.5	1.3	29	6.0	7.5	.3	1.4	57	24	0	94	6.3	15		

LAKE MOULTRIE TAILRACE NEAR MONCKS CORNER, S. C.

LOCATION.--At Lake Moultrie Tailrace near Moncks Corner, Berkeley County. Samples collected below Pinopolis power plant.
RECORDS AVAILABLE.--Chemical analyses: October 1950 to September 1951.

Chemical analyses, in parts per million, water year October 1950 to September 1951

Oct. 16, 1950	11,200	12	0.10	4.4	1.4	6.7	1.2	27	4.2	3.5	0.1	0.3	48	17	0	68	7.0	6	4	2
Nov. 15	13,400	10	.03	4.0	1.4	6.6		25	4.0	3.5	.1	.4	43	16	0	66	6.6	4	3	2
Dec. 15	15,200	11	.08	3.8	1.5	7.0		25	4.1	4.1	.0	.4	45	16	0	65	6.8	6	3	2
Jan. 15, 1951	14,900	9.9	.05	4.0	1.5	5.9	.5	26	2.9	4.1	.1	.2	47	16	0	67	7.1	18	5	2
Feb. 15	15,900	11	.02	3.5	1.4	7.9		24	4.9	4.2	.2	.5	45	14	0	65	6.4	3	3	3
Mar. 15	11,200	10	.03	3.7	1.5	8.0		26	4.9	4.1	.1	.3	46	15	0	67	6.4	4	5	5
Apr. 16	12,700	4.5	.04	4.0	1.6	5.4	2.0	25	4.8	3.8	.0	.4	41	16	0	69	6.5	3	3	3
May 15	13,000	5.9	.04	4.1	1.6	7.2		25	4.5	4.4	.2	.8	43	17	0	69	6.2	7	4	3
June 15	13,500	6.6	.10	4.4	1.7	6.9		26	4.7	4.2	.2	.5	47	18	0	70	6.6	8	6	4
July 16	14,000	8.2	.03	5.2	1.6	7.1	1.6	29	5.6	4.4	.1	.4	51	20	0	73	6.7	7	3	2
Aug. 20	11,800	8.5	.02	4.7	1.7	7.6		30	4.5	3.9	.1	.3	45	19	0	70	6.5	3	4	2
Sept. 14	10,100	9.4	.08	4.3	1.6	6.5	1.6	28	4.9	3.6	.0	.5	47	17	0	68	6.9	8	3	3

EDISTO RIVER NEAR BRANCHVILLE, S. C.

LOCATION.--At gaging station 400 feet downstream from bridge on U. S. Highway 21, 4.7 miles downstream from Brier Branch, and 5.2 miles south of Branchville, Orangeburg County.
DRAINAGE AREA.--1,720 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1949 to September 1950.

Chemical analyses, in parts per million, water year October 1949 to September 1950

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 16, 1949	1,850	8.6	0.13	2.2	0.7	2.9	0.6	8	1.9	3.8	0.1	0.2	38	8	2	30	5.9	45	15	10
Nov. 16	1,540	8.0	.06	2.2	.6	2.4		8	1.5	3.5	.0	.1	27	8	1	26	5.9	22	7	5
Dec. 15	1,540	9.0	.05	1.9	.6	3.1		8	1.6	3.9	.0	.3	28	7	1	27	6.3	17	6	4
Jan. 17, 1950	1,610	6.2	.07	2.4	.7	2.8	.7	8	1.8	4.0	.1	.5	29	9	2	30	6.4	29	9	6
Feb. 20	1,540	6.2	.07	1.7	.5	2.5		6	1.4	3.6	.1	.1	26	6	1	25	6.4	33	8	6
Mar. 19	2,160	3.2	.05	2.3	.6	3.1		10	1.8	3.5	.0	.0	27	8	0	28	5.9	28	11	7
Apr. 19	1,300	3.8	.07	2.0	.5	2.7	.5	9	1.7	3.1	.0	.4	25	7	0	26	6.1	20	9	6
May 18	915	5.4	.07	2.0	.5	3.3		8	2.1	3.0	.0	1.6	26	7	1	28	5.9	12	6	4
June 14	1,300	6.4	.23	2.1	.5	2.6		7	2.1	3.2	.0	.7	34	7	2	29	5.9	27	9	6
July 19	1,340	10	.27	2.9	.8	3.0	.5	8	3.7	4.0	.1	.7	43	11	4	37	5.7	40	11	8
Aug. 15	720	8.4	.07	2.0	.7	2.6		8	1.7	2.8	.1	1.2	26	8	1	25	6.0	17	4	3
Sept. 21	1,580	7.6	.16	2.4	.5	3.1	.6	8	1.9	4.4	.0	.2	41	8	2	30	5.9	50	12	10
Chemical analyses, in parts per million, of samples collected intermittently																				
Dec. 13, 1950	1,610	7.1	0.07	2.6	0.7	2.0		6	2.3	4.4	0.0	0.3	34	9	5	31	5.8	27		
June 21, 1951	1,160	8.0	.05	1.9	.7	2.8		6	2.8	4.0	.0	.3	31	8	3	36	6.9	36		
Nov. 13	1,300	10	.11	3.0	.8	2.0		6	3.3	4.5	.1	.3	41	11	6	33	5.6	45		
Apr. 8, 1952	2,850	4.8	.31	2.5	.8	2.5		8	2.0	4.0	.0	.8	a42	10	0	37	5.9	70		
Nov. 20	1,160	9.5	.08	2.6	.8	3.1		7	3.5	5.0	.0	.2	36	10	4	36	5.7	30		
Nov. 12, 1953	900	8.5	.21	1.8	.2	3.4		6	1.2	4.5	.0	.4	29	5	0	35	5.8	26		
May 9, 1955	699	.0	.33	2.0	.5	2.8	0.4	7	2.1	4.2	.0	.5	b30	7	1	32	6.2	55		
Apr. 10, 1956	1,640	2.9	.16	3.2	.2	2.9	.3	9	2.1	4.5	.0	.2	c41	9	2	37	5.8	80		
Apr. 16, 1957	1,530	4.4	.29	2.8	.2	3.1	.4	8	1.0	4.0	.0	1.5	a43	8	1	36	5.8	80		
May 15, 1958	2,770	6.0	.48	2.8	1.5	2.6	.3	8	1.9	4.5	.1	1.5	d54	13	6	38	5.7	140		
May 29, 1959	2,480	7.2	.18	3.0	.6	2.9	.4	8	.5	4.3	.1	1.1	e47	10	3	36	5.9	95		
Apr. 25, 1960	3,030	2.7	.41	2.4	.7	2.9	.8	9	.5	4.2	.2	1.2	c35	9	2	35	5.8	80		

a Organic matter present; sum of mineral constituents 22 parts per million.
b Organic matter present; sum of mineral constituents 16 parts per million.
c Organic matter present; sum of mineral constituents 20 parts per million.
d Organic matter present; sum of mineral constituents 26 parts per million.
e Organic matter present; sum of mineral constituents 24 parts per million.

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (UPPER STATION) JACKSONBORO, S. C.

LOCATION.--On right bank at County Landing, 4.7 miles downstream from U. S. Highway 17 and 4.5 miles south of Jacksonboro, Colleton County.
DRAINAGE AREA.--2,860 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: January 1958 to September 1960.
Water temperatures: October 1958 to September 1960.
EXTREMES, October 1956 to September 1960.--Dissolved solids: Maximum, 71 ppm Oct. 1-31, 1959; minimum, 28 ppm Nov. 1-11, 14-30, 1958.
Hardness: Maximum, 48 ppm July 30, 1960; minimum, 10 ppm Oct. 1-10, 18-31, Nov. 1-11, 14-30, Dec. 1-31, 1958.
Specific conductance: Maximum daily, 259 micromhos June 14, 1960; minimum daily, 25 micromhos, Nov. 2, 1958.
Water temperatures: Maximum, 85°F Aug. 26-28, 1959; minimum, freezing point Jan. 14, 1959.
REMARKS.--Records of specific conductance of daily samples available in district office at Raleigh, N. C. Records of discharge for gaging station near Givhans are being used for this station. No appreciable inflow between sampling point and gaging station except during periods of heavy local rains.

Chemical analyses, in parts per million, January 1958 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Jan. 1-31, 1958....	3,183	6.4	0.08	5.8	1.2	3.8	0.4	15	3.0	9.0	0.1	0.1	58	19	7	63	6.6	100
Feb. 1-28.....	3,745	2.7	.07	5.8	1.0	4.1	.4	15	4.1	7.7	.1	.1	a53	18	6	56	6.8	80
Mar. 1-31.....	4,631	1.9	.09	6.4	.5	2.9	.8	14	3.3	7.0	.0	.3	b64	18	7	57	6.5	110
June 1-30.....	1,243	7.4	.11	4.8	.7	3.4	.8	14	.9	5.8	.0	1.7	48	15	4	48	6.4	80
July 1-31.....	1,349	8.5	.54	5.6	1.3	3.2	.5	16	.9	5.5	.1	1.6	45	19	6	49	6.3	80
Aug. 1-12, 14-31...	864	8.3	.08	5.0	1.3	3.1	.5	18	.7	4.9	.2	1.5	45	18	3	51	6.6	50
Aug. 13.....	734	--	--	--	--	--	--	--	--	--	--	--	--	--	--	103	--	--
Sept. 1-30.....	745	6.8	.06	4.0	.7	4.0	.6	12	.9	6.0	.1	1.2	44	13	3	48	6.7	60
Oct. 1-10, 16-31...	627	6.8	.07	3.2	.5	3.2	.4	10	1.1	5.5	.0	1.1	37	10	2	38	6.5	30
Nov. 1-11, 14-30...	648	7.8	.03	2.4	.9	3.9	.4	10	.9	5.3	.0	.8	28	10	2	35	6.5	30
Nov. 12, 13.....	636	7.8	--	2.8	1.5	--	--	11	1.5	14	--	--	--	13	4	73	6.5	35
Dec. 1-31.....	895	8.2	.07	2.8	.7	3.3	.6	7	1.7	5.0	.0	1.1	36	10	4	36	6.3	35
Jan. 1-31, 1959....	1,687	8.7	.07	4.4	.5	3.7	.6	9	5.4	5.5	.1	.9	53	13	6	46	6.0	50
Feb. 1-28.....	4,494	7.4	.13	5.0	1.5	4.3	.7	12	5.6	7.5	.1	.9	c85	18	9	59	6.2	120
Mar. 1-31.....	7,348	4.9	.13	5.6	.7	3.7	.6	15	2.8	6.5	.2	.3	d59	17	4	50	6.8	140
Apr. 1-30.....	4,115	4.3	.28	5.9	1.1	4.2	.6	19	2.5	7.0	.2	.7	e61	19	4	56	6.7	140
May 1-31.....	2,385	6.2	.17	5.3	1.2	3.4	.4	18	5.8	5.0	.1	.6	55	18	3	47	6.5	110
June 1-30.....	2,732	7.9	.11	6.7	.9	3.4	.4	20	2.6	6.0	.1	.5	58	20	4	52	6.7	120
July 1-31.....	2,705	7.4	.15	5.5	1.3	3.0	.4	14	2.4	5.5	.1	.6	a57	19	8	54	6.8	120
Aug. 1-31.....	2,762	8.8	.18	5.5	1.3	3.5	.5	17	1.3	6.5	.2	.5	50	19	5	51	6.5	110
Sept. 1-30.....	2,415	9.7	.21	5.4	.9	3.5	.6	14	1.4	5.5	.1	.3	57	17	6	50	7.0	160
Oct. 1-31.....	10,140	7.5	.48	6.1	.9	3.3	1.6	16	2.9	6.5	.2	.5	f71	19	6	51	6.3	200
Nov. 1-30.....	7,657	7.8	.24	5.3	.7	3.7	1.1	13	1.4	6.5	.2	.4	a60	16	6	47	6.5	140
Dec. 1-31.....	4,880	7.0	.17	4.5	.7	3.5	.8	13	4.5	7.0	.1	.4	48	14	3	47	7.0	100

Jan. 1-31, 1960....	4,959	5.0	.22	4.2	.9	3.7	.8	14	2.1	6.3	.1	.3	43	14	3	46	6.9	100
Feb. 1-29.....	10,650	3.3	.13	4.2	.4	2.8	.5	10	3.4	5.5	.1	1.0	42	12	4	41	7.0	90
Mar. 1-31.....	7,743	1.3	.15	4.0	1.0	2.9	.5	14	1.4	6.0	.1	1.1	31	14	3	44	6.8	60
Apr. 1-30.....	7,412	2.9	.20	4.7	.8	2.8	.5	14	2.2	5.0	.1	.3	g50	15	4	47	6.8	100
May 1-31.....	2,267	5.3	.13	3.8	.6	2.5	.6	14	.6	5.0	.0	1.5	h49	12	0	43	6.4	80
June 1-13.....	1,595	6.4	.13	3.7	.9	2.5	.4	12	1.4	5.5	.1	1.2	150	13	3	42	6.7	80
June 14.....	1,660	--	--	--	--	--	--	6	.8	64	--	4.6	--	13	8	259	6.2	--
June 15-30.....	1,386	6.7	.15	3.8	.9	2.3	.4	13	1.0	4.5	.1	1.3	h45	14	3	40	6.9	70
July 1-29.....	1,807	7.1	.13	5.1	.7	3.2	.6	15	3.2	5.0	.2	1.0	37	16	3	47	6.8	70
July 30.....	2,480	--	--	--	--	--	--	2	2.8	32	--	5.8	--	46	44	152	5.4	--
July 31.....	3,040	--	--	--	--	--	--	16	--	4.0	--	1.7	--	16	3	50	7.0	--
Aug. 1-12.....	3,825	7.8	.13	6.1	.4	3.0	.6	15	2.8	5.1	.2	.3	47	17	4	50	6.9	100
Aug. 13.....	2,180	--	--	--	--	--	--	19	2.4	36	--	1.3	--	19	4	160	7.0	--
Aug. 14-31.....	1,388	7.6	.20	4.6	.9	2.3	.3	15	2.4	5.5	.0	1.5	53	16	3	44	7.0	60
Sept. 1-30.....	1,534	7.3	.14	4.0	1.1	2.2	.3	13	2.0	4.5	.1	.8	150	14	4	43	6.6	60
Time-weighted average.....	3,250	6.4	0.16	4.8	0.9	3.3	0.6	14	2.4	6.1	0.1	0.8	49	16	5	49	--	95

a Organic matter present; sum of mineral constituents 33 parts per million.
b Organic matter present; sum of mineral constituents 30 parts per million.
c Organic matter present; sum of mineral constituents 39 parts per million.
d Organic matter present; sum of mineral constituents 32 parts per million.
e Organic matter present; sum of mineral constituents 36 parts per million.
f Organic matter present; sum of mineral constituents 38 parts per million.
g Organic matter present; sum of mineral constituents 26 parts per million.
h Organic matter present; sum of mineral constituents 27 parts per million.
i Organic matter present; sum of mineral constituents 28 parts per million.

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (UPPER STATION) JACKSONBORO, S. C.--Continued

Temperature (°F) of water, water year October 1958 to September 1959
(Once-daily measurement at approximately high tide)

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72	61	54	45	45	--	64	71	76	81	77	82
2	71	60	54	44	45	55	64	70	74	82	78	84
3	68	60	52	44	43	55	65	69	74	82	78	81
4	68	59	55	43	44	54	64	70	74	83	78	79
5	67	58	49	43	47	55	64	--	74	83	78	78
6	65	59	50	--	45	53	65	72	75	81	78	78
7	65	67	50	44	44	52	66	72	74	81	79	74
8	67	56	51	43	48	50	66	73	74	81	80	75
9	67	60	59	42	50	53	68	71	73	81	80	--
10	69	62	56	34	48	--	68	72	73	82	80	74
11	65	60	50	33	50	51	68	70	74	82	81	73
12	64	58	44	34	50	--	67	72	74	82	76	74
13	67	60	43	34	48	--	67	72	75	82	75	73
14	65	58	42	32	52	--	64	72	76	71	75	73
15	66	60	45	42	52	--	66	73	76	74	75	72
16	65	58	43	36	51	--	66	73	77	74	76	71
17	65	60	38	38	52	--	65	73	77	74	77	70
18	65	65	39	--	50	--	67	73	77	74	78	70
19	65	62	36	45	48	--	68	73	78	75	78	70
20	64	60	34	45	47	--	69	73	78	74	78	69
21	63	58	45	42	46	--	69	73	78	75	81	69
22	60	58	40	43	47	53	65	73	79	75	82	68
23	63	62	43	44	52	53	64	74	79	75	79	68
24	59	51	42	40	53	--	65	73	69	76	84	67
25	65	58	43	45	51	60	67	74	80	76	84	66
26	64	59	42	--	51	61	68	--	80	76	85	66
27	63	60	41	46	51	61	68	74	81	76	85	67
28	60	61	--	45	52	60	68	74	81	76	85	67
29	60	56	45	--	--	62	71	74	81	77	83	68
30	62	55	42	45	--	62	70	74	82	77	82	68
31	58	--	42	46	--	63	--	74	--	--	83	--
Average	65	59	46	41	49	--	66	72	76	78	80	72

Temperature (°F) of water, water year October 1959 to September 1960
(Once-daily measurement at approximately high tide)

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68	58	46	49	50	49	55	70	68	--	78	80
2	--	58	46	49	50	49	55	70	69	78	78	81
3	69	57	47	48	49	47	56	70	68	80	79	81
4	68	57	47	48	50	46	56	69	79	80	79	82
5	75	56	46	49	50	46	54	66	70	--	79	82
6	76	56	47	49	--	45	54	65	70	83	80	81
7	76	54	45	49	49	45	56	67	70	83	80	81
8	75	55	45	48	50	44	55	68	72	84	79	80
9	76	56	46	48	51	44	54	68	73	84	79	80
10	75	56	46	48	51	44	54	69	73	81	80	80
11	76	55	56	49	51	43	53	69	73	82	80	81
12	76	53	57	50	49	43	52	66	73	81	80	80
13	76	53	57	52	49	43	54	65	74	81	81	76
14	73	53	57	52	52	44	55	65	73	80	81	76
15	73	53	56	53	54	40	56	66	73	80	81	71
16	71	54	59	53	56	37	59	66	74	--	82	71
17	66	50	58	54	56	44	62	68	74	81	82	71
18	67	--	58	54	56	47	63	68	75	81	82	70
19	65	50	54	54	55	50	64	69	75	82	82	70
20	63	50	50	50	--	48	66	69	74	82	83	71
21	63	49	49	50	55	46	67	69	74	81	83	71
22	62	50	48	49	54	44	69	69	74	81	83	71
23	62	50	49	49	55	43	70	70	75	82	83	70
24	59	49	48	45	54	44	70	70	75	82	83	72
25	57	--	48	44	54	46	70	70	76	82	83	74
26	--	--	49	43	55	47	70	69	75	62	82	75
27	56	--	50	44	51	53	69	69	76	82	84	74
28	53	--	50	44	50	53	69	70	76	82	81	73
29	53	48	50	43	50	52	69	72	75	81	81	72
30	53	--	49	44	--	63	70	75	75	82	82	71
31	52	--	49	44	--	64	--	74	--	81	83	--
Average	67	53	50	49	52	47	61	69	73	81	81	76

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.

LOCATION.--On left bank at Hill's Fishing Camp, 8.7 miles downstream from U. S. Highway 17 and 7 miles south of Jacksonboro, Colleton County.
DRAINAGE AREA.--2,870 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: January 1958 to September 1960.
Water temperatures: January 1958 to September 1960.
EXTREMES, January 1958 to September 1960.--Chloride: Maximum daily, 3,500 ppm Oct. 13, 1958; minimum, 5.0 ppm Feb. 1-29, Apr. 1-30, May 1-31, 1960.
Specific conductance: Maximum daily, 10,700 micromhos Oct. 13, 1958; minimum daily, 38 micromhos Feb. 24, Mar. 10, 1960.
Water temperatures: Maximum, 89°F June 29, 30, July 1, 1959; minimum, 34°F Jan. 3, 1958.
REMARKS.--Daily samples were composited for chemical analyses unless otherwise noted. When warranted, as indicated by specific conductance values, only specific conductance and chloride were determined on individual samples. The individual specific conductance and chloride determinations are tabulated separately from the composite chemical analyses. Records of discharge for gaging station near Givhans are being used for this station. No appreciable inflow between sampling point and gaging station, except during periods of heavy local rains.

Chemical analyses, in parts per million, January 1958 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Jan. 1-31, 1958....	3,183	6.4	0.18	6.0	1.9	6.9	0.6	14	4.0	13	0.0	0.2	69	23	12	79	6.4	100
Feb. 1-28.....	3,745	2.9	.13	5.6	1.0	5.8	.6	13	3.6	10	.0	.1	a60	18	7	67	6.6	90
Mar. 1-31.....	4,831	2.4	.18	6.4	.7	5.6	.8	16	2.3	8.5	.1	1.6	b64	19	6	65	6.6	115
Apr. 1-30.....	8,957	2.3	.18	7.1	.6	4.0	.8	14	4.6	6.0	.2	.5	57	20	9	54	6.5	160
May 1-31.....	4,350	6.7	.21	4.8	1.9	5.3	.9	20	1.1	8.0	.2	.8	66	20	4	62	6.2	160
June 1-10.....	1,565	8.3	.09	5.6	1.2	5.1	.8	17	1.9	9.2	.0	.4	76	19	5	61	6.6	100
June 11-16.....	1,015	8.1	.10	4.4	1.9	6.7	.8	16	3.7	11	.0	1.5	56	19	6	67	6.9	75
July 1-10.....	1,248	8.5	.10	7.6	1.2	9.7	1.0	16	3.6	19	.0	1.4	73	24	11	101	6.8	70
July 11-17.....	1,209	8.3	.17	5.2	1.8	8.0	1.0	18	4.6	13	.0	.3	71	20	6	81	6.7	100
July 18-20.....	1,397	9.3	.24	6.4	2.4	21	1.6	6	7.2	35	.0	1.1	c87	26	8	160	6.3	80
July 21-31.....	1,518	9.1	.13	5.5	3.0	10	1.0	18	2.4	19	.0	.4	82	26	11	102	6.8	100
Aug. 1-13.....	859	9.5	.18	6.0	2.4	13	1.1	17	3.8	23	.2	2.5	79	25	11	112	6.4	100
Jan. 13-18, 1959...	1,897	9.3	.15	4.0	1.9	7.7	.6	8	7.8	15	.1	1.0	78	18	11	83	6.4	60
Feb. 1-7.....	3,099	8.0	.17	5.6	2.1	17	1.1	11	7.9	31	.1	1.1	94	23	14	142	6.2	80
Feb. 8-28.....	4,959	7.3	.20	6.1	1.3	5.7	.7	12	6.8	10	.1	.5	70	20	11	70	6.5	140
Mar. 1-31.....	7,346	4.9	.15	5.3	.8	5.0	.6	13	5.7	8.0	.2	.5	61	16	6	56	6.5	140
Apr. 1-30.....	4,115	4.2	.23	6.1	1.1	5.5	.6	19	2.3	9.0	.2	.3	62	20	4	63	6.7	150
May 1-16.....	1,351	5.9	.18	5.3	1.3	6.5	.5	16	1.6	11	.1	.9	59	18	5	63	6.5	170
June 1-18, 20, 22..	3,584	7.5	.10	7.4	.3	4.8	.5	19	2.4	7.5	.1	.6	67	20	4	59	6.8	110
June 19, 21, 23-24, 26-29.....	1,061	8.4	.16	6.8	2.7	16	1.0	19	5.3	29	.1	.6	102	28	13	140	6.5	100
June 30.....	782	--	--	--	--	--	--	21	9.3	58	--	1.8	--	37	20	242	7.5	--
July 5, 9-12, 16-31	3,259	5.8	.13	5.4	1.1	4.5	.5	17	2.5	7.3	.1	.2	47	18	4	62	7.3	120
Aug. 1-31.....	2,762	9.4	.20	6.1	1.1	5.2	.6	18	.9	9.0	.2	.6	65	20	5	62	7.1	140

a Organic matter present; sum of mineral constituents 36 parts per million.
b Organic matter present; sum of mineral constituents 37 parts per million.
c Calculated from determined constituents.

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Chemical analyses, in parts per million, January 1958 to September 1960--Continued

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Sept. 1-5, 7, 9, 11-20, 1959	2,398	9.4	0.23	5.1	1.4	5.5	0.6	14	2.5	9.0	0.1	0.3	87	18	7	66	6.9	140
Sept. 6, 8, 10	2,437	9.4	.24	5.1	2.4	17	1.5	13	7.6	30	.1	.5	c80	23	12	147	7.1	120
Sept. 21-30	2,440	10	.26	10	19	142	6.4	15	27	270	.1	.2	552	102	90	996	6.4	110
Oct. 8, 10-31	10,724	8.1	.51	5.8	1.5	5.5	2.0	17	2.9	10	.2	.3	d77	20	6	68	6.6	220
Nov. 1-10, 12-20, 22-30	7,735	8.0	.23	5.1	.7	5.0	1.1	15	6.4	8.0	.1	.6	68	15	3	55	6.8	140
Nov. 11, 21	6,555	8.0	.24	5.6	1.5	12	1.7	18	3.6	22	.1	.6	c83	20	7	105	7.0	--
Dec. 1-31	4,660	8.9	.20	4.0	1.1	4.5	.9	14	2.9	9.0	.1	1.2	60	14	3	55	6.6	80
Jan. 1-31, 1960	4,959	5.0	.22	4.2	1.0	4.4	.6	15	2.0	6.6	.1	.3	50	14	2	50	6.6	100
Feb. 1-29	10,650	3.3	.15	4.0	.5	3.2	.5	9	3.7	5.0	.1	1.1	e44	12	5	43	6.6	90
Mar. 1-31	7,743	1.3	.16	4.3	.7	3.0	.5	12	1.4	6.0	.2	.9	32	14	4	44	6.7	80
Apr. 1-30	7,412	3.0	.25	4.6	1.3	2.7	.6	18	2.5	5.0	.1	.4	f57	17	2	48	6.9	120
May 1-31	2,267	8.7	.15	3.7	1.0	2.9	.6	14	.8	5.0	.0	1.3	f50	13	2	46	7.0	80
June 1-8	1,615	6.7	.15	4.1	1.1	5.8	.7	13	2.6	11	.1	1.3	60	14	4	64	6.9	80
June 20-24	1,244	6.8	.18	3.9	1.8	7.1	.6	12	1.7	16	.1	1.2	c45	17	7	76	6.9	80
June 29-30	1,580	8.4	.11	4.6	1.9	8.8	.8	14	4.0	20	.0	.9	c58	20	6	94	6.8	--
July 1-5	1,820	7.3	.15	4.4	1.2	7.1	.8	14	4.0	12	.1	1.4	c45	16	4	66	6.2	60
July 6-13	1,942	7.1	.12	4.7	1.4	10	.8	13	5.6	17	.1	.8	60	18	7	87	6.1	60
July 14-31	1,849	7.1	.16	5.2	1.3	5.9	.6	17	5.8	9.5	.1	1.6	56	18	4	64	6.3	80
Aug. 1-22	2,791	8.3	.17	5.7	1.0	5.8	.6	18	4.8	9.9	.2	.1	57	18	3	68	7.0	100
Aug. 23-24	1,250	--	--	--	--	--	--	14	3.2	23	--	2.1	--	20	8	115	6.8	--
Aug. 25-31	1,310	8.4	.22	5.5	3.4	26	1.4	15	9.2	44	.2	1.0	154	26	15	198	7.0	80
Sept. 12-22	1,964	7.0	.15	4.8	1.0	5.4	.7	13	5.6	8.3	.2	.4	52	16	5	59	6.9	100

c Calculated from determined constituents.
d Organic matter present; sum of mineral constituents 45 parts per million.
e Organic matter present; sum of mineral constituents 28 parts per million.
f Organic matter present; sum of mineral constituents 29 parts per million.

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Specific conductance (micromhos at 25°C) and chloride, in parts per million, January to September 1958

Day	October		November		December		January	
	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)
1							78	
2							83	
3							85	
4							82	
5							69	
6							68	
7							70	
8							67	
9							73	
10							73	
11							62	
12							83	
13							73	
14							73	
15							88	
16							73	13
17							81	
18							77	
19							69	
20							71	
21							95	
22							101	
23							98	
24							91	
25							84	
26							82	
27							82	
28							70	
29							70	
30							69	
31							83	

	February		March		April		May	
1	73		70		64		59	
2	90		66		61		60	
3	89		84		58		62	
4	78		62		49		62	
5	72		61		49		68	
6	62		60		50		64	
7	76		--		53		61	
8	71		--		56		69	
9	65		56		55		66	
10	63		59		54		62	
11	62		56		58		61	
12	62		60		58		62	
13	61		58		57		63	
14	63		56		58		63	
15	66	10	83		58	6.0	61	
16	62		70	8.5	55		62	8.0
17	70		58		53		62	
18	65		63		54		61	
19	65		60		51		60	
20	60		62		45		61	
21	64		67		47		61	
22	61		61		48		62	
23	59		62		51		61	
24	57		61		50		61	
25	58		56		48		61	
26	59		58		50		58	
27	58		55		49		68	
28	61		59		50		65	
29	--	--	60		52		65	
30	--	--	56		52		71	
31	--	--	62		--	--	66	

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Specific conductance (micromhos at 25°C) and chloride, in parts per million, January to September 1958--Continued

Day	June		July		August		September	
	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)
1	68		140		95		221	52
2	58		61		140		160	35
3	64		139		168		440	112
4	73		130		107		342	82
5	60	9.2	111	19	101		367	89
6	60		111		117		426	108
7	62		81		101	23	502	127
8	59		64		100		348	85
9	60		63		88		343	81
10	62		70		85		479	122
11	66		74		95		532	138
12	84		86		122		1,080	290
13	65		86		143		2,010	584
14	67	11	64	13	231	52	3,280	990
15	73		75		270	63	4,790	1,480
16	65		78		580	151	3,600	1,100
17	96	17	98		733	192	2,830	840
18	109	19	169		1,950	564	1,710	488
19	114	30	172	35	1,850	526	2,260	675
20	209	47	148		2,350	690	2,120	620
21	222	51	103		1,410	394	1,420	376
22	178	38	132		1,040	280	829	223
23	276	63	66		1,130	312	1,120	316
24	131	26	109		483	124	1,890	530
25	140	29	122		852	231	1,670	476
26	--	--	125	19	542	144	1,540	434
27	178	39	83		730	195	872	231
28	104	13	80		1,550	444	1,260	348
29	112	17	94		601	161	2,740	815
30	151	31	102		735	195	2,440	710
31	--	--	86		285	70	--	--

October 1958 to September 1959

	October		November		December		January	
1	--	--	--	--	--	--	259	68
2	2,480	705	--	--	--	--	230	62
3	3,220	940	1,080	298	1,910	554	126	29
4	2,490	710	2,120	605	--	--	125	29
5	2,080	590	2,090	590	1,010	282	309	80
6	--	--	--	--	--	--	310	82
7	5,060	1,530	--	--	--	--	360	91
8	7,210	2,290	--	--	--	--	315	78
9	7,410	2,280	--	--	3,270	980	316	79
10	6,590	2,030	4,750	1,440	4,320	1,340	159	38
11	5,900	1,820	7,510	2,400	5,970	1,860	262	68
12	7,700	2,430	7,750	2,520	6,920	2,200	162	36
13	10,700	3,500	7,400	2,380	3,750	1,140	77	
14	8,680	2,760	7,420	2,400	3,080	900	95	
15	8,650	2,760	--	--	--	--	--	15
16	7,530	2,380	--	--	1,500	424	86	
17	--	--	3,690	1,090	650	172	85	
18	4,950	1,480	3,080	900	362	93	59	
19	4,030	1,200	2,290	650	240	62	203	54
20	6,450	1,990	2,890	845	144	35	202	54
21	6,210	1,970	2,840	835	207	50	141	35
22	--	--	2,820	830	270	69	145	37
23	--	--	2,200	625	991	270	219	58
24	4,110	1,260	2,170	625	--	--	269	72
25	4,460	1,320	--	--	--	--	--	--
26	5,070	1,520	4,200	1,280	1,490	422	272	73
27	3,370	1,010	1,870	534	2,570	770	310	82
28	5,090	1,550	1,810	518	2,010	595	314	82
29	4,710	1,440	2,040	595	522	138	157	40
30	4,080	1,200	2,090	600	671	179	159	40
31	4,000	1,180	--	--	319	76	150	36

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Specific conductance (micromhos at 25°C) and chloride, in parts per million, October 1958 to September 1959--Continued

Day	February		March		April		May	
	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)
1	147		80		76		61	
2	195		71		63		65	
3	105		79		62		70	
4	110	31	54		61		67	
5	197		55		71		--	
6	132		55		65		85	
7	110		59		65		86	
8	76		61		60		--	
9	69		43		59		58	11
10	61		39		59		56	
11	59		46		58		57	
12	67		52		64		57	
13	59		56		63		80	
14	58		46		59		83	
15	61		47		75		--	
				8.0		9.0		
16	63		49		64		--	
17	61		51		64		120	22
18	61	10	49		64		128	24
19	74		48		69		185	40
20	92		50		69		--	--
21	82		55		68		119	22
22	83		57		70		--	--
23	77		63		68		--	--
24	74		64		66		--	--
25	75		--		83		--	--
26	76		66		72		--	--
27	78		65		67		--	--
28	79		60		63		--	--
29	--	--	59		73		--	--
30	--	--	62		60		--	--
31	--	--	62		--	--	--	--

Day	June		July		August		September	
	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)
1	71		244	54	--		67	
2	60		--	--	--		60	
3	60		197	40	--		70	9.0
4	60		198	40	--		66	
5	51		61	7.3	50		60	
6	59		94	17	51		133	30
7	51		--	--	55		62	9.0
8	54		90	14	50		141	30
9	53		--	--	--		61	9.0
10	53	7.5	54	7.3	--		139	30
11	55		--	--	--		59	
12	56		--	--	--		59	
13	57		104	19	61		57	
14	62		178	39	57		66	
15	60		96	16	60		62	
						9.0		9.0
16	60		81		--		65	
17	72		70		--		64	
18	74		58		--		68	
19	126	29	50		--		57	
20	75	7.5	54		58		63	
21	127	29	--		51		942	
22	76	7.5	53		62		998	
23	130		52		74		983	
24	150		60	7.3	75		998	
25	--		--		--		983	
		29						270
26	131		--		--		985	
27	129		59		--		948	
28	137		58		--		979	
29	188		58		78		960	
30	242	58	56		76		969	
31	--	--	55		75		--	--

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Specific conductance (micromhos at 25°C) and chloride, in parts per million, October 1959 to September 1960

Day	October		November		December		January	
	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)
1	--	--	51		77		--	
2	--	--	--		75		48	
3	349	90	48		75		47	
4	128	24	52		73		47	
5	129	28	49		53		47	
6	179	42	49	8.0	51		47	
7	183	42	57		59		49	
8	89	10	53		53		54	
9	969	270	51		51		48	
10	48		51		51		52	
11	73		100	22	51		55	
12	73		55		51		52	
13	79		55		50		50	
14	96		56		51		48	
15	87		54		62		47	
16	46		55	8.0	52	9.0	52	6.8
17	48		--		51		48	
18	63		--		50		49	
19	63		58		57		49	
20	78	10	61		51		51	
21	65		111	22	50		48	
22	66		60		51		49	
23	68		56		51		48	
24	79		74		52		49	
25	69		--		50		50	
26	49		51	8.0	50		50	
27	48		51		48		51	
28	47		70		50		58	
29	72		69		50		52	
30	63		67		50		51	
31	48		--	--	56		--	

Day	February		March		April		May	
	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)
1	49		40		50		--	
2	53		40		55		52	
3	47		40		51		49	
4	45		43		52		46	
5	45		41		53		46	
6	46		39		52		49	
7	45		39		47		48	
8	40		39		52		46	
9	51		40		48		46	
10	40		38		47		51	
11	39		39		48		45	
12	40		45		43		48	
13	40		44		40		46	
14	39		44		39		46	
15	40		40		39		41	
16	40	5.0	42	6.0	41	5.0	40	5.0
17	49		40		40		44	
18	41		41		42		--	
19	41		46		40		--	
20	60		46		49		50	
21	40		48		43		42	
22	41		48		47		42	
23	41		46		49		50	
24	38		47		48		40	
25	40		48		47		42	
26	39		55		50		43	
27	40		46		50		43	
28	40		45		49		44	
29	40		50		50		45	
30	--	--	54		50		50	
31	--	--	47		--	--	46	

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Specific conductance (micromhos at 25°C) and chloride, in parts per million, October 1959 to September 1960--Continued

Day	June		July		August		September	
	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)	Specific conductance (micromhos at 25°C)	Chloride (Cl)
1	47		66		68		322	78
2	46		63		64		74	11
3	--		80	12	64		436	106
4	71		55		68		440	112
5	77	11	--		66		403	98
6	58		80		60		188	40
7	56		80		59		363	87
8	95		89		55		--	--
9	--	--	89		59		108	19
10	310	72	97	17	56		280	66
11	332	80	110		59		170	38
12	180	40	78		56	9.9	61	
13	175	38	78		58		51	
14	220	52	56		65		56	
15	129	28	67		66		56	
16	120	24	62		108		54	
17	67	10	57		103		48	8.3
18	138	28	59		108		53	
19	123	26	57		64		64	
20	66		70		68		70	
21	81	16	56		67		72	
22	62		58	9.5	58		71	
23	89		64		118	23	163	36
24	87		67		128		490	122
25	--	--	71		182		--	--
26	--	--	71		198		189	41
27	--	--	76		210	44	173	38
28	280	67	76		200		460	114
29	109	20	57		207		367	86
30	81		53		189		118	20
31	--	--	68		209		--	--

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Temperature (°F) of water, January to September 1958
(Once-daily measurement at approximately high tide)

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				50	47	54	57	70	76	80	87	81
2				44	42	55	58	70	77	80	88	81
3				34	41	55	58	70	78	81	87	80
4				42	39	58	80	70	78	80	87	80
5				40	41	56	58	70	77	80	86	79
6				38	42	55	62	69	79	81	88	80
7				39	45	--	61	64	79	82	85	79
8				39	45	--	62	67	79	83	86	82
9				38	44	55	61	70	81	85	86	81
10				37	44	57	62	89	82	86	87	80
11				37	44	56	65	68	83	86	86	80
12				39	44	57	64	72	84	85	86	81
13				41	42	57	64	71	83	85	85	82
14				41	41	56	63	70	84	85	85	82
15				44	41	54	62	68	86	84	86	78
16				44	40	54	60	68	85	83	86	79
17				44	36	54	64	69	85	84	87	80
18				43	35	55	61	71	82	85	85	82
19				42	35	54	62	71	83	86	84	82
20				42	35	56	62	72	84	85	84	82
21				44	37	50	63	72	83	86	84	82
22				45	39	49	64	73	84	87	85	82
23				46	40	50	67	74	82	86	86	81
24				46	43	52	69	74	81	87	86	79
25				47	46	53	71	74	82	86	85	79
26				47	49	55	69	75	83	87	85	79
27				47	53	55	69	76	83	85	83	78
28				47	55	55	71	76	87	85	79	78
29				46	--	56	71	75	81	85	78	76
30				46	--	56	69	76	80	87	80	75
31				45	--	55	--	76	--	86	80	--
Average				43	42	55	64	71	82	84	85	80

Temperature (°F) of water, water year October 1958 to September 1959
(Once-daily measurement at approximately high tide)

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	49	50	54	65	72	76	89	--	81
2	73	--	--	50	48	53	64	73	76	88	--	82
3	71	61	56	50	47	54	63	75	75	87	--	82
4	70	60	--	50	45	55	62	75	75	85	--	81
5	69	61	57	47	44	56	62	76	74	84	82	80
6	--	--	--	45	50	58	63	76	74	84	83	80
7	69	--	--	44	47	56	65	78	73	83	83	79
8	65	--	--	43	49	54	66	77	74	83	83	78
9	70	--	53	43	51	54	67	75	74	83	--	78
10	69	82	52	43	53	55	68	75	75	83	--	79
11	69	61	50	42	55	55	69	76	75	82	--	80
12	69	61	45	43	55	55	67	76	76	82	--	78
13	68	60	45	43	55	55	64	76	77	81	78	76
14	68	60	43	44	55	55	62	77	78	81	78	74
15	68	--	--	--	58	55	62	75	77	80	80	72
16	68	--	43	43	60	55	62	76	77	78	--	73
17	--	64	43	42	60	55	63	76	77	78	--	74
18	69	66	43	41	60	54	64	77	78	78	--	73
19	67	66	43	42	58	54	65	76	78	78	--	71
20	66	66	44	44	55	54	66	76	79	78	83	73
21	67	65	44	46	51	55	68	76	79	78	82	74
22	--	64	45	47	50	56	69	76	80	78	81	74
23	--	63	44	46	51	56	67	75	82	78	82	75
24	63	63	--	46	51	57	66	76	82	79	83	76
25	63	--	--	--	52	--	65	76	84	80	--	76
26	65	63	45	48	52	61	66	75	85	82	--	77
27	63	62	45	50	52	62	67	75	86	82	--	76
28	63	61	42	51	52	62	69	75	87	82	--	77
29	63	61	46	51	--	63	70	75	89	82	84	76
30	61	59	47	52	--	64	71	75	89	80	84	75
31	61	--	48	52	--	64	--	75	--	80	84	--
Average	67	--	--	46	52	57	66	75	79	81	--	77

EDISTO RIVER BASIN--Continued

EDISTO RIVER NEAR (LOWER STATION) JACKSONBORO, S. C.--Continued

Temperature (°F) of water, water year October 1959 to September 1960
(Once-daily measurement at approximately high tide)

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	65	45	--	47	48	83	--	81	85	84	84
2	--	--	45	45	50	47	83	70	80	85	82	83
3	78	62	46	46	48	47	82	69	--	88	82	82
4	75	66	46	48	50	46	61	70	79	84	83	82
5	74	67	50	49	50	45	60	70	79	--	83	83
6	76	67	50	48	51	45	58	70	79	80	84	82
7	77	62	50	49	51	45	62	70	79	80	84	83
8	76	60	49	49	51	45	66	69	78	82	85	--
9	76	80	47	51	50	43	64	68	--	82	85	82
10	77	60	45	52	51	43	63	65	78	83	86	82
11	77	62	45	52	53	40	62	65	78	83	86	80
12	75	60	47	52	52	41	62	67	80	84	86	79
13	78	60	46	53	49	41	59	67	80	84	66	78
14	71	65	48	54	48	41	60	67	80	62	86	78
15	71	65	50	55	49	43	62	70	82	82	85	77
16	72	60	49	51	50	43	65	73	83	82	84	76
17	72	--	48	51	51	42	69	73	64	82	84	75
18	70	--	47	52	50	43	69	--	85	82	84	77
19	68	54	47	53	50	45	69	73	63	82	83	77
20	68	52	46	50	49	45	68	73	64	82	83	79
21	67	55	48	47	49	46	69	77	62	84	83	79
22	68	54	48	47	48	46	71	76	62	84	83	79
23	68	55	47	43	48	49	72	77	62	82	83	78
24	68	56	46	43	48	50	73	76	63	82	82	77
25	66	--	47	42	48	52	73	79	--	82	82	--
26	66	52	48	43	48	55	73	76	--	82	82	75
27	66	55	46	43	50	57	74	70	--	84	83	76
28	65	48	49	45	49	58	71	78	61	84	83	75
29	64	48	49	48	49	60	70	81	83	82	83	75
30	64	46	49	48	--	61	69	83	83	83	83	75
31	63	--	49	--	--	63	--	63	--	84	84	--
Average	71	58	48	49	50	48	66	73	61	83	64	79

EDISTO RIVER BASIN--Continued

NORTH FORK EDISTO RIVER AT ORANGEBURG, S. C.

LOCATION.--At gaging station at bridge on U. S. Highway 301 at Orangeburg, Orangeburg County, 0.5 mile upstream from Atlantic Coast Line Railroad bridge, and 1-1/2 miles downstream from Caw Caw Swamp.
DRAINAGE AREA.--663 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1947 to September 1946, November 1958 to September 1960.

Chemical analyses, in parts per million, water year October 1947 to September 1946

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 15, 1947	491	6.5	0.01	1.7	0.5	6.1		17	0.9	3.0	0.1	0.1	31	6	0		6.3	30	8	5
Nov. 21	1,460	6.8	.03	1.8	.5	2.3		6	1.9	3.2	.0	.3	34	7	2		6.1	42	12	11
Dec. 16	1,820	5.8	.01	1.8	.7	1.8		6	2.1	2.9	.0	.2	32	7	2		5.8	40	12	10
Jan. 19, 1948	1,200	4.6	.02	3.3	.8	1.8		8	3.1	3.5	.0	.1	31	12	5		6.5	75	3	--
Feb. 18	2,410	3.8	.01	2.5	.5	3.2		10	2.8	3.0	.0	.1	30	6	0		6.7	20	7	6
Mar. 9	2,570	2.7	.01	2.0	.9	2.7		9	2.3	3.2	.1	.2	29	9	1		6.6	27	7	5
Apr. 22	1,050	4.2	.02	2.2	1.2	1.0		7	1.9	3.2	.1	.2	34	10	5		6.7	55	7	7
May 11	912	4.9	.09	2.4	1.1	1.2		8	2.5	2.8	.0	.1	34	10	4		6.7	65	8	6
June 18	802	6.2	.01	2.0	.6	1.0		8	1.2	1.1	.1	.1	32	7	1	45	5.9	34	10	9
July 14	593	7.7	.05	1.4	.5	2.9		7	1.5	2.8	.1	.4	29	6	0		5.7	17	8	6
Aug. 16	489	6.8	.01	2.2	.8	1.7		9	1.2	2.5	.0	.5	26	9	1		5.9	17	6	4
Sept. 14	1,050	7.6	.04	2.3	.8	1.1		5	1.6	3.9	.0	.1	42	9	5		5.8	55	14	11

Chemical analyses, in parts per million, November 1958 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Nov. 19, 1958	398	7.2	0.13	1.0	0.6	1.6	0.1	6	0.2	2.8	0.0	0.3	19	5	0	22	5.9	40		
Dec. 19	545	7.5	.04	1.5	.2	2.3	.6	5	1.7	2.7	.0	.6	a33	5	0	24	5.6	35		
Jan. 28, 1959	619	5.4	.10	1.8	.2	2.3	.5	4	1.5	2.6	.0	1.0	b36	5	1	22	5.9	55		
Feb. 25	685	4.6	.08	1.4	.3	2.6	.3	7	1.0	3.5	.1	.8	28	5	0	25	6.3	50		
Mar. 26	890	1.0	.03	1.8	.3	2.0	.3	5	1.0	3.5	.0	.5	c32	6	2	26	6.2	60		
Apr. 23	734	3.1	.04	1.4	.4	2.6	.6	8	1.0	3.5	.1	1.0	26	5	0	26	6.3	65		
May 28	930	6.4	.30	1.9	1.0	1.2	.2	7	.2	2.3	.1	1.0	d37	9	3	24	6.5	65		
June 24	408	6.1	.03	1.0	.6	1.7	.3	5	.5	2.3	.1	.8	e26	5	1	22	5.8	30		
July 23	1,140	7.1	.03	1.3	.8	1.6	.5	6	1.2	3.2	.1	.5	a42	6	2	25	5.7	60		
Aug. 18	485	7.9	.06	1.3	.5	1.9	.2	5	.5	3.2	.0	.9	d30	5	1	24	5.8	40		
Sept. 21	709	8.7	.15	1.3	.8	2.3	.5	5	2.0	3.3	.1	.4	f35	6	2	23	5.7	60		
Oct. 6	2,670	7.1	.07	1.6	.7	1.8	1.5	6	1.8	3.6	.2	.3	g43	7	2	29	6.4	120		
Nov. 12	1,310	7.6	.11	1.7	.6	2.2	.7	7	.8	3.3	.1	.4	f40	7	1	28	5.7	60		
Dec. 21	2,380	4.8	.07	1.8	.4	2.1	.7	7	.9	3.0	.1	.4	b32	6	0	25	6.0	50		
Jan. 26, 1960	1,260	3.7	.06	1.2	.6	2.3	.5	5	.3	4.3	.1	.8	17	5	1	22	6.3	30		
Feb. 26	2,200	2.9	.06	1.8	.5	2.0	.6	7	2.1	3.0	.1	.8	23	6	1	25	6.3	35		
Mar. 17	1,700	1.7	.04	2.3	.5	2.0	.6	7	1.1	4.0	.0	.8	20	8	2	28	6.3	5		
Apr. 25	1,140	2.9	.10	1.2	.6	2.2	.8	6	.7	2.7	.1	.8	e25	6	0	27	5.4	40		

May 27	760	6.1	.12	1.7	.4	1.5	.8	7	.7	2.5	.0	.5	22	6	0	23	6.5	50	
June 14	640	5.9	.07	1.2	.5	1.7	.4	5	1.2	2.3	.1	2.2	25	5	1	19	5.7	30	
July 27	662	7.3	.12	1.5	.5	1.4	.4	6	.6	2.5	.0	.2	28	6	1	25	5.7	55	
Aug. 25	682	6.8	.04	1.6	.3	1.8	.5	6	.4	3.5	.1	.5	25	6	0	23	5.8	20	
Sept. 19	640	8.4	.08	1.4	.5	1.2	.2	6	2.2	2.0	.0	.8	24	6	0	21	5.8	35	
Chemical analyses, in parts per million, of samples collected intermittently																			
Mar. 11, 1946	675	1.5	0.09	1.6	0.5	3.0		8	1.6	3.0	0.0	0.1	24	8	0	--	6.2	51	
Dec. 15, 1949	795	6.0	.03	1.7	.6	2.7		7	1.9	3.2	.0	.3	24	7	1	26	6.0	18	
May 18, 1950	433	5.4	.09	1.5	.4	3.2		7	2.1	2.6	.0	.9	23	5	0	24	5.5	8	
Jan. 24, 1951	675	5.0	.10	1.9	.6	2.5		8	1.5	3.0	.0	.3	29	7	1	24	5.7	17	
Mar. 6	--	4.7	.12	2.4	.7	3.3		10	2.1	3.6	.1	.4	27	9	1	30	5.8	22	
Apr. 8, 1952	990	2.2	.26	2.0	.5	2.1		6	1.9	3.1	.0	.4	24	7	2	25	5.8	45	
Nov. 20	539	7.9	.08	1.9	.6	2.7		6	3.1	3.4	.0	.2	27	7	2	26	6.4	25	
June 25, 1953	358	5.2	.06	1.2	.2	2.4		4	1.5	2.8	.0	.6	26	4	1	21	5.5	17	
Nov. 12	403	7.4	.08	1.4	.5	1.7		4	1.7	2.8	.1	.1	26	6	2	28	6.1	16	
May 9, 1955	304	2.4	.25	1.2	.4	1.9	0.4	6	2.2	2.8	.0	.0	23	5	0	20	6.3	40	
Apr. 10, 1956	379	3.1	.09	1.6	.2	2.0	.2	5	.4	3.5	.0	.3	h28	5	1	26	5.6	50	
Apr. 17, 1957	379	3.4	.25	1.1	.3	1.9	.1	4	.0	2.9	.0	.9	h25	4	1	24	5.8	50	
June 5, 1958	514	6.9	.08	1.4	.8	1.6	.6	6	.0	2.9	.1	1.7	28	7	2	21	6.3	60	

a Organic matter present; sum of mineral constituents 19 parts per million.
b Organic matter present; sum of mineral constituents 17 parts per million.
c Organic matter present; sum of mineral constituents 12 parts per million.
d Organic matter present; sum of mineral constituents 18 parts per million.
e Organic matter present; sum of mineral constituents 15 parts per million.
f Organic matter present; sum of mineral constituents 21 parts per million.
g Organic matter present; sum of mineral constituents 22 parts per million.
h Organic matter present; sum of mineral constituents 13 parts per million.

SOUTH FORK EDISTO RIVER NEAR DENMARK, S. C.

LOCATION.--At bridge on U. S. Highway 321, 200 feet downstream from Seaboard Air Line Railroad bridge, 1.8 miles downstream from Little River, and 4.8 miles north of Denmark, Bamberg County.
DRAINAGE AREA.--720 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1950 to September 1951.
Water temperatures: November 1956 to September 1960.
EXTREMES, 1956-57.--Water temperatures: Maximum, 79°F Aug. 16-18; minimum, 41°F Jan. 19-21.
EXTREMES, 1957-58.--Water temperatures: Maximum, 79°F July 30, 31, Aug. 1-3; minimum, 34°F Feb. 19-21.
EXTREMES, 1958-59.--Water temperatures: Maximum, 77°F on several days during August; minimum, 39°F Jan. 19, 20.
EXTREMES, 1959-60.--Water temperatures: Maximum, 78°F on several days during July and August; minimum, 38°F Jan. 24-27.

Chemical analyses, in parts per million, water year October 1950 to September 1951

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 17, 1950	375	7.6	0.04	1.8	0.4	3.2	0.5	9	1.4	2.9	0.1	0.4	24	6	0	23	6.1	13	4	3
Nov. 16	519	8.0	.08	1.9	.9	1.8		8	1.2	3.1	.0	.2	26	8	2	24	6.2	45	6	4
Dec. 15	944	7.9	.06	2.0	.7	2.9		7	1.8	4.6	.0	.1	31	8	2	42	6.0	65	8	6
Jan. 16, 1951	747	8.6	.03	1.9	.6	2.5	.5	7	1.0	3.5	.2	.6	30	7	1	26	6.2	34	8	4
Feb. 17	747	6.7	.08	1.8	.6	3.0		8	2.0	3.2	.1	.2	27	7	0	26	6.0	18	8	5
Mar. 15	899	8.3	.20	2.2	.7	2.3		8	1.8	3.5	.0	.1	35	8	2	26	5.9	32	8	8
Apr. 15	917	4.2	.09	1.8	.5	2.0	.8	7	1.5	3.0	.0	.2	a29	7	1	27	5.7	45	10	9
May 15	394	6.7	.11	1.5	.5	3.1		8	1.1	2.8	.1	.8	24	6	0	25	5.5	30	6	4
June 18	808	8.5	.16	2.0	.5	3.2		8	2.0	3.4	.0	.6	38	7	0	29	6.4	54	8	8
July 16	341	7.0	.08	1.4	.4	2.7	.4	8	1.5	2.9	.0	.4	25	5	0	25	6.1	30	4	3
Aug. 16	452	8.3	.08	2.3	1.0	2.9		10	2.6	3.4	.1	.4	29	10	2	26	5.7	30	7	5
Sept. 14	279	8.8	.07	2.2	.7	2.5	.9	9	1.9	3.0	.0	.4	27	8	1	26	5.7	32	6	3

Chemical analyses, in parts per million, of samples collected intermittently

Mar. 11, 1946	648	1.7	0.06	1.6	0.7	3.3		9	1.8	3.4	0.0	0.2	26	7	0	--	6.2	55		
Mar. 16, 1949	1,090	2.6	.04	2.0	.7	2.2		8	1.8	3.1	.0	.2	21	8	1	23	6.8	27		
June 1, 1954	375	4.7	.21	1.3	.4	2.1	0.4	6	1.8	2.5	.0	.4	23	5	0	25	5.8	28		
Mar. 29, 1955	553	4.0	.37	1.8	.4	2.5	.3	5	2.2	3.8	.0	1.1	31	6	2	27	5.7	50		
Apr. 10, 1956	627	3.3	.10	1.8	.3	2.5	.2	6	.5	3.5	.0	.2	b34	6	1	29	5.7	60		
Apr. 17, 1957	565	8.2	.08	1.4	.8	2.9	.3	8	.5	5.5	.1	2.2	c48	7	0	30	5.2	40		
June 5, 1958	445	7.2	.08	1.9	.4	2.1	.7	7	.5	3.6	.2	1.5	32	7	1	28	5.7	35		
May 28, 1959	950	7.1	.27	2.0	.7	1.3	.2	7	.3	2.8	.1	1.1	d42	8	2	26	5.9	100		
Feb. 1, 1960	3,210	3.4	.07	1.0	.5	2.0	.7	4	.8	3.5	.1	1.0	29	4	1	24	5.6	40		

a Organic matter present; sum of mineral constituents 17 parts per million.
b Organic matter present; sum of mineral constituents 15 parts per million.
c Organic matter present; sum of mineral constituents 26 parts per million.
d Organic matter present; sum of mineral constituents 19 parts per million.

EDISTO RIVER BASIN--Continued

SOUTH FORK EDISTO RIVER NEAR DENMARK, S. C.--Continued

Temperature (°F) of water, November 1956 to September 1957
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1			--	--	46	45	48	46	62	61	57	56	59	59	69	69	70	69	76	75	77	75	75	74
2			--	--	45	45	48	47	62	61	56	55	63	59	69	69	71	70	75	75	78	77	76	75
3			--	--	45	45	47	45	61	59	55	54	65	63	69	68	71	71	75	75	78	77	77	76
4			--	--	46	45	45	43	60	59	54	54	66	65	68	63	71	70	75	74	78	77		
5			--	--	47	46	47	43	61	60	54	51	66	66	63	60	72	71	75	74	78	77	a78	a76
6			--	--	48	47	48	47	61	60	51	50	66	64	60	59	73	72	76	75	78	77		
7			--	--	49	48	49	48	60	60	50	50	64	61	60	59	73	73	76	75	77	76	76	75
8			--	--	50	49	49	48	60	60	50	49	63	62	60	60	73	73	75	75	76	74	75	75
9			--	--	52	50	49	48	62	60	49	47	63	62	61	60	73	72	76	75	74	73	75	74
10			--	--	52	52	53	49	62	61	47	46	62	59	62	61	72	71	77	76	75	74	75	74
11			--	--	52	51	53	52	62	60	49	47	60	58	63	62	71	70	77	77	76	75	75	75
12			--	--	51	50	52	49	60	56	53	49	60	59	66	63	71	70	77	76	76	75	76	75
13			--	--	53	50	49	49	56	53	53	53	60	60	67	66	73	71	77	76	77	76	76	76
14			--	--	56	53	49	49	53	52	56	53	60	58	68	67	73	73	78	77	78	77	76	76
15			52	52	58	56	49	49	52	51	60	56	58	56	69	68	74	73	77	76	78	77	76	76
16			54	52	58	58	49	46	51	51	60	59	57	56	69	68	74	73	78	77	79	77	76	76
17			56	54	58	58	46	45	51	51	60	58	59	57	69	69	74	73	77	77	79	78	76	76
18			56	56	58	58	45	42	51	50	60	59	60	59	69	69	74	73	77	77	79	77	76	76
19			56	53	58	58	42	41	51	50	60	59	62	60	70	69	75	74	77	76	77	76	76	76
20			53	52	58	57	41	41	53	51	60	60	64	62	70	70	75	74	77	76	76	75	76	76
21			53	52	57	57	43	41	53	52	60	59	66	64	70	70	74	74	76	75	75	74	76	76
22			53	53	58	57	47	43	52	50	58	57	67	66	71	70	74	74	76	75	74	73	76	76
23			53	51	58	58	51	47	50	49	57	56	68	67	71	71	74	74	77	76	73	73		
24			51	48	58	58	52	51	52	50	57	56	68	67	71	71	75	74	77	76	73	73		
25			48	47	58	53	51	49	54	52	58	56	67	67	71	71	75	74	77	76	73	72	a76	a70
26			47	47	53	49	49	49	57	54	59	58	67	67	71	71	74	74	76	75	73	72		
27			47	47	49	47	51	49	57	57	59	56	67	67	72	71	74	73	75	74	73	72		
28			47	46	49	48	54	51	58	57	58	56	68	67	72	71	74	74	74	73	73	72		
29			46	45	49	48	58	54	--	--	58	56	68	68	72	71	75	74	74	73	74	73	a70	a65
30			46	45	48	46	59	58	--	--	58	56	69	68	71	70	75	74	75	74	74	73		
31			--	--	46	46	61	59	--	--	59	58	--	--	70	69	--	--	76	75	75	74	--	--
Average			--	--	52	51	49	48	57	55	56	54	64	62	68	67	73	72	76	75	76	75	--	--

a No temperature record; temperatures estimated.

EDISTO RIVER BASIN--Continued

SOUTH FORK EDISTO RIVER NEAR DENMARK, S. C.--Continued

Temperature (°F) of water, water year October 1957 to September 1958
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1			56	55	55	50	47	46	42	42	51	50	57	55	67	67	71	70	72	71	79	78	74	73
2	a67	a65	56	56	50	48	47	44	42	41	51	51	58	57	68	67	71	71	72	72	79	78	74	73
3			57	56	48	48	44	43	41	40	53	51	60	58	69	68	72	71	72	72	79	78	73	72
4			58	57	48	48	43	41	40	38	53	53	60	58	69	69	72	72	72	72	78	77	72	72
5	a67	a63	58	58	48	46	41	39	38	38	53	52	58	57	70	69	72	71	72	72	78	77	73	72
6			58	58	46	45	39	39	40	38	52	52	59	57	70	70	71	71	72	72	77	76	73	73
7	63	63	58	57	48	45	39	39	42	40	52	52	61	59	70	64	71	71	74	72	77	76	73	73
8	63	62	57	57	50	48	39	39	42	42	52	52	61	59	64	62	71	71	75	74	77	76	74	73
9	62	62	57	57	50	50	39	38	42	41	53	52	60	59	63	62	72	71	75	74	77	76	74	73
10	62	62	57	55	50	49	38	38	41	40	53	53	60	59	64	63	74	72	75	75	77	77	73	73
11	62	62	55	53	49	45	39	38	40	39	53	52	61	60	64	64	75	74	75	74	77	77	74	73
12	62	62	53	51	45	40	40	39	39	39	52	52	61	60	65	64	76	74	75	75	77	77	74	72
13	62	61	52	51	40	38	42	40	39	39	53	52	61	60	66	65	76	75	75	74	77	77	72	71
14	61	60	54	52	39	38	44	42	39	39	53	52	61	60	66	65	78	76	75	74	78	77	71	71
15	60	60	57	54	42	39	46	44	39	39	52	51	61	61	66	65	78	78	74	74	78	77	72	71
16	61	60	60	57	45	42	46	45	39	38	51	50	61	60	67	66	78	77	75	74	78	78	73	72
17	62	61	62	60	46	45	45	44	38	36	51	51	60	59	68	67	77	76	76	75	78	78	75	73
18	62	61	64	62	48	46	44	43	36	35	51	51	61	60	69	68	75	74	76	75	78	77	75	75
19	62	62	65	64	50	48	43	42	35	34	51	51	61	61	69	69	74	74	76	75	77	77	75	75
20	62	60	64	58	52	50	42	42	34	34	51	50	63	61	69	68	75	74	77	76	77	76	75	75
21	60	58	58	54	52	51	45	42	35	34	50	49	64	63	68	68	75	75	77	76	76	75	75	75
22	58	58	54	53	51	49	45	45	37	35	49	47	64	64	68	68	75	75	77	77	76	75	76	75
23	59	58	53	52	50	49	45	45	39	37	50	48	64	63	68	68	75	72	78	77	76	76	76	76
24	60	59	52	52	52	50	45	44	41	39	51	50	65	63	69	68	72	71	78	77	76	76	76	75
25	61	60	53	52	53	52	45	44	44	41	52	51	67	65	69	69	73	71	77	76	76	75	75	74
26	62	61	53	52	53	53	45	45	46	44	52	52	67	67	70	69	74	73	77	76	75	74	75	74
27	61	58	52	51	53	50	45	45	49	46	52	52	67	66	70	69	74	74	77	77	74	73	75	74
28	58	56	54	51	50	50	45	44	50	49	53	52	66	66	70	69	74	74	78	77	73	72	75	74
29	56	55	56	54	50	49	44	44	--	--	54	53	66	66	71	70	74	73	78	77	72	72	74	72
30	55	55	56	55	49	47	44	43	--	--	54	54	67	66	71	70	73	71	79	78	73	72	72	71
31	55	55	--	--	47	46	43	42	--	--	55	54	--	--	71	70	--	--	79	78	73	72	--	--
Average	--	--	57	55	49	47	43	42	40	39	52	51	62	61	68	67	74	73	75	75	77	76	74	73

a No temperature record; temperatures estimated.

SOUTH FORK EDISTO RIVER NEAR DENMARK, S. C.--Continued

Temperature (°F) of water, water year October 1958 to September 1959
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	72	71	57	56	55	53	50	50	52	52	55	54	64	61	66	65	71	70			76	75	76	75
2	72	70	58	57	53	52	50	50	52	50	55	53	64	64	66	65	71	71			75	75	76	76
3	70	66	58	58	53	52	50	50	50	48	53	50	64	62	67	66	72	71			75	75	76	76
4	66	66	58	58	53	53	50	50	48	46	52	50	64	62	67	67	72	71	a77	a74	75	75	76	76
5	66	66	58	58	53	53	50	47	48	46	52	51	63	61	67	67	71	70			75	75	76	76
6	66	66	59	58	53	53	47	44	48	48	56	52	65	63	67	66	70	70			76	75	76	76
7	66	65	59	59	53	52	44	43	48	47	56	54	67	65	68	66	70	70	76	74	76	75	76	75
8	66	65	59	58	52	50	43	43	48	47	54	51	68	66	69	68	70	70	76	75	76	75	75	75
9	66	65	58	58	50	49	44	43	51	48	54	52	69	68	69	69	70	70	76	74	76	76	75	74
10	66	65	59	58	49	49	44	43	56	51	55	53	69	69	69	69	70	70	74	73	76	75	75	74
11	66	65	59	58	49	46	43	42	56	56	55	54	69	69	69	69	70	70	73	73	76	75	74	73
12	65	64	58	56	46	43	42	41	56	54	56	55	69	67	69	69	71	70	73	73	76	75	74	73
13	64	63	56	56	43	43	42	41	54	53	55	52	67	60	69	69	72	71	73	73	75	75	73	71
14	63	62	56	56	43	43	45	42	55	53	54	53	60	58	69	69	72	72	73	73	75	75	71	69
15	62	62	59	56	43	43	48	45	58	55	55	53	58	56	69	67	72	71	73	73	75	75	69	69
16	62	62	61	59	43	42	48	48	58	58	55	54	59	57	67	65	71	70	73	73	75	75	69	69
17	63	62	62	61	42	41	48	42	58	57	54	53	61	59	65	64	72	71	73	73	75	74	69	69
18	63	63	63	62	41	41	42	40	58	57	54	53	62	61	66	65	72	72	74	73	75	74	69	69
19	63	63	64	63	41	41	40	39	58	56	53	51	64	62	68	66	72	71	74	74	76	75	69	68
20	63	63	64	63	43	41	41	39	56	52	53	52	66	64	68	68	71	71	74	74	76	76	68	66
21	63	62	63	59	44	43	48	41	52	48	56	53	66	66	68	68	72	71	74	74	76	75	66	65
22	62	62	59	58	44	43	49	48	48	48	59	56	66	65	69	68	73	72	75	74	76	75	67	66
23	62	62	58	57	44	43	49	46	53	48	59	57	65	62	71	69	74	73	75	75	76	76	67	67
24	63	62	58	57	48	44	46	44	55	53	60	57	62	60	72	71	74	73	75	75	76	76	68	67
25	63	62	58	58	48	47	45	44	55	54	62	59	61	59	72	71	74	74	76	75	77	76	68	68
26	62	61	58	58	47	45	49	45	54	52	63	62	62	61	71	70	74	74	76	75	77	77	69	68
27	61	60	58	58	45	45	51	49	53	53	65	62	64	62	70	70	76	74	76	76	77	77	69	69
28	60	58	58	58	47	45	51	51	54	53	65	62	65	64	70	70	--	--	76	76	77	77	70	69
29	58	57	58	57	50	47	51	50	--	--	62	56	66	65	70	70	--	--	76	76	77	76	70	70
30	57	57	57	55	50	50	52	50	--	--	56	54	66	65	70	70	--	--	76	76	76	75	71	70
31	57	56	--	--	50	50	52	52	--	--	61	56	--	--	70	70	--	--	76	76	75	75	--	--
Average	64	63	59	58	48	47	47	45	53	52	57	54	64	63	69	68	--	--	--	--	76	75	72	71

a No temperature record; temperatures estimated. Estimated figures not included in extremes.

EDISTO RIVER BASIN--Continued

SOUTH FORK EDISTO RIVER NEAR DENMARK, S. C.--Continued

Temperature (°F) of water, water year October 1959 to September 1960
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	72	71	60	59	45	43	46	44	47	47	47	46	65	62	64	62	72	72	77	76	74	73	76	75
2	72	72	61	60	44	43	44	44	48	47	46	44	65	63	64	63	72	71	77	76	74	74	76	75
3	72	72	60	58	46	44	46	44	48	48	44	42	63	62	63	62	72	71	78	77	75	74	75	74
4	72	72	58	58	46	46	46	46	48	47	42	41	63	63	64	62	71	71	78	77	75	75	74	73
5	72	72	60	58	46	46	46	46	48	47	41	41	63	62	64	63	72	71	78	77	76	75	74	73
6	72	72	62	60	46	46	46	46	49	48	41	41	62	60	64	63	72	72	78	77	77	76	74	73
7	72	72	62	58	46	44	47	46	49	48	41	41	63	60	64	64	73	72	77	76	78	77	75	74
8	72	72	58	56	44	42	47	45	48	47	42	41	65	63	64	64	73	72	76	75	78	78	75	75
9	73	72	56	55	43	42	45	45	47	47	42	41	65	65	64	61	72	71	76	75	78	77	75	75
10	74	73	55	54	46	43	47	45	51	48	41	41	65	62	62	61	71	69	75	75	78	78	77	75
11	74	73	54	53	47	46	48	47	53	51	41	40	62	58	61	61	69	68	75	75	78	78	77	75
12	73	72	54	53	50	47	49	48	53	51	40	40	61	58	61	61	72	69	76	75	78	77	76	75
13	72	71	54	54	50	50	51	49	51	48	42	40	63	60	61	60	73	72	76	75	78	77	75	72
14	71	71	56	54	50	49	53	51	48	46	44	41	65	63	60	59	74	73	77	76	78	77	72	71
15	71	68	58	56	49	47	55	53	46	44	44	44	65	64	62	60	75	74	76	76	78	77	71	71
16	68	66	58	57	48	47	55	53	45	44	44	43	67	65	64	62	75	74	76	75	77	76	72	71
17	66	65	57	57	51	48	53	51	46	45	46	44	68	66	67	64	75	74	75	75	76	75	72	71
18	66	65	57	53	55	51	51	51	47	46	49	46	68	68	69	67	74	74	75	74	75	74	73	72
19	65	64	53	49	55	54	51	48	47	46	49	48	68	66	69	68	74	73	75	75	74	72	74	73
20	64	64	49	48	54	50	48	44	46	44	49	48	66	65	70	69	74	74	76	75	73	72	74	73
21	64	64	50	48	50	48	44	42	45	44	49	47	66	65	71	70	74	74	77	76	74	73	75	74
22	64	64	52	50	48	46	42	40	45	45	50	47	68	66	72	71	74	73	78	77	75	74	75	74
23	64	64	53	52	46	44	40	39	46	45	50	48	70	68	72	71	74	73	78	77	75	74	74	73
24	64	62	55	53	44	44	39	38	46	46	53	49	70	68	71	70	76	74	77	76	75	74	73	72
25	62	59	55	53	45	44	38	38	48	46	53	52	71	70	71	71	76	76	77	76	75	74	72	71
26	59	58	53	51	46	45	38	38	48	48	56	53	71	70	71	70	76	74	78	77	75	74	71	70
27	58	58	53	51	48	46	39	38	48	47	59	56	71	70	71	70	74	72	78	77	74	73	71	70
28	58	57	53	52	52	48	43	39	47	46	60	59	70	64	71	70	73	72	77	76	75	74	70	69
29	57	57	52	48	52	50	45	43	47	46	62	60	64	62	71	70	74	73	76	75	76	75	69	69
30	58	58	48	45	50	48	47	45	--	--	62	62	63	62	72	71	76	74	75	73	76	75	70	69
31	59	58	--	--	48	46	48	47	--	--	64	61	--	--	72	72	--	--	73	73	76	75	--	--
Average	67	66	56	54	48	46	46	45	48	47	48	47	66	64	67	66	73	72	76	76	76	75	74	73

LITTLE PEE DEE RIVER AT GALIVANTS FERRY, S. C.

LOCATION.--At bridge on U. S. Highway 501 at Galivants Ferry, Horry County, 1.0 mile downstream from Lake Swamp.
DRAINAGE AREA.--2,790 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1950 to September 1951.

Chemical analyses, in parts per million, water year October 1950 to September 1951

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 16, 1950	826	7.7	0.15	2.0	0.7	4.5	0.8	7	5.2	5.0	0.0	0.3	42	8	2	39	5.6	45	12	11
Nov. 15	860	10	.06	1.8	.6	8.0		6	3.3	8.0	.0	.3	48	7	2	38	5.8	80	13	11
Dec. 15	1,800	11	.14	2.2	.9	5.9		6	4.9	8.5	.0	.1	57	9	4	50	5.4	85	16	15
Jan. 15, 1951	2,230	13	.09	2.0	.7	4.0	1.0	4	3.7	7.0	.1	.2	50	8	5	46	5.5	70	7	6
Feb. 15	1,440	8.2	.07	2.3	.8	4.8		6	3.8	6.5	.0	.2	42	8	3	40	5.7	40	12	11
Mar. 15	2,370	8.7	.24	3.2	.7	4.5		7	3.9	7.6	.0	.2	a54	11	5	45	5.7	80	20	16
Apr. 18	4,890	5.8	.13	2.6	.8	4.9	1.0	6	4.5	7.5	.1	.2	b60	10	5	47	5.5	120	28	23
May 15	826	8.9	.22	1.8	.7	4.2		7	2.3	5.5	.0	.8	c45	7	2	42	5.4	90	24	11
June 15	418	4.2	.13	1.8	.8	4.9		8	3.2	4.9	.1	.6	32	7	0	37	6.0	47	16	7
July 17	588	7.5	.22	2.2	.7	4.6	1.0	7	6.3	4.1	.1	.4	46	8	3	43	6.0	70	10	10
Aug. 15	826	7.9	.18	2.2	.7	4.3		6	5.0	5.4	.0	.2	d52	8	4	42	6.0	90	19	15
Sept. 17	299	5.7	.11	1.7	.6	4.7	1.1	9	3.2	4.9	.1	.6	33	7	0	35	5.9	45	9	6
Chemical analyses, in parts per million, of samples collected intermittently																				
Mar. 12, 1946	3,470	0.7	0.01	1.3	1.2	1.1		7	2.5	1.5	0.0	0.2	e45	8	0	--	5.7	145		
June 24, 1954	3,622	4.7	.23	1.8	.2	3.5	0.6	4	3.6	4.0	.0	.4	f39	5	2	38	5.5	65		
Mar. 17, 1955	2,230	2.4	.13	3.2	.7	6.1	1.2	6	7.7	8.0	.0	.3	g64	11	6	60	6.1	120		
Mar. 7, 1956	5,910	3.2	.45	2.3	.8	5.3	.7	6	3.2	8.0	.1	.8	h88	9	4	54	5.5	150		
May 22, 1957	1,210	6.9	.32	1.6	.7	3.7	.4	4	.0	6.7	.3	2.9	c61	7	4	41	5.3	100		
May 21, 1958	7,090	5.3	.24	1.8	1.3	2.4	.4	6	1.0	4.2	.2	1.9	i67	10	5	40	5.7	200		
Apr. 8, 1959	7,930	2.1	.13	1.9	.6	4.4	.8	8	2.5	7.5	.1	.2	j50	7	1	42	8.0	160		
May 17, 1960	1,990	5.2	.17	1.0	.7	3.5	.8	5	2.3	5.0	.2	1.2	i46	5	1	34	5.7	100		

a Organic matter present; sum of mineral constituents 32 parts per million.
b Organic matter present; sum of mineral constituents 30 parts per million.
c Organic matter present; sum of mineral constituents 26 parts per million.
d Organic matter present; sum of mineral constituents 29 parts per million.
e Organic matter present; sum of mineral constituents 12 parts per million.
f Organic matter present; sum of mineral constituents 21 parts per million.
g Organic matter present; sum of mineral constituents 33 parts per million.
h Organic matter present; sum of mineral constituents 28 parts per million.
i Organic matter present; sum of mineral constituents 22 parts per million.
j Organic matter present; sum of mineral constituents 24 parts per million.

LITTLE PEE DEE RIVER NEAR DILLON, S. C.

LOCATION.--At gaging station at bridge on State Highway 9, 1.1 miles east of Dillon, Dillon County, and 3 miles upstream from Maple Swamp.
DRAINAGE AREA.--524 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1952 to September 1953.

Chemical analyses, in parts per million, water year October 1952 to September 1953

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 16, 1952	282	9.7	0.18	1.9	0.8	3.3	0.6	4	2.5	6.8	0.0	0.2	49	8	5	38	5.4	110	14	11
Nov. 15	262	8.6	.16	1.6	.7	5.5		7	3.1	6.8	.0	.2	46	7	1	40	6.6	85	15	11
Dec. 15	371	8.8	.12	2.0	.8	4.5		5	3.3	7.4	.0	.2	a50	8	4	40	5.6	100	19	12
Jan. 15, 1953	443	5.2	.19	1.6	.7	3.3	.8	4	3.4	6.6	.0	.1	45	7	4	41	5.5	120	22	15
Feb. 16	645	2.8	.20	1.4	.7	4.5		4	2.7	7.1	.0	.2	44	6	3	53	5.4	100	16	13
Mar. 15	1,920	2.4	.09	2.4	1.0	3.4		4	4.7	6.5	.0	.3	b42	10	7	43	5.3	80	14	13
Apr. 15	432	2.8	.19	2.2	.8	3.1	1.0	6	1.9	6.4	.0	.4	c45	9	4	37	5.7	90	17	16
May 15	785	4.7	.14	1.6	.7	3.7		5	1.5	6.2	.0	.6	60	7	3	38	5.5	135	--	--
June 15	818	7.7	.10	1.8	.7	4.1		5	3.6	5.8	.0	.3	d57	7	3	43	5.2	140	--	--
Aug. 15	210	11	.10	2.0	1.1	3.1	1.0	5	7.3	5.5	.0	.2	56	10	5	47	5.2	65	16	13
Sept. 15	218	7.9	.10	1.4	.7	3.7	1.3	4	4.4	5.8	.0	.1	55	6	3	53	5.6	70	19	13

Chemical analyses, in parts per million, of samples collected intermittently

Mar. 12, 1946	598	1.0	0.01	1.0	1.0	1.7		7	2.3	1.4	0.0	0.2	e38	7	0	--	5.9	124		
Feb. 24, 1949	1,450	1.7	.28	1.8	.9	3.9		7	2.5	5.6	.1	.3	f39	8	2	36	5.9	100		
Mar. 16, 1955	605	.2	.29	1.2	.3	6.1	0.8	4	3.4	7.5	.0	.2	c53	4	1	49	5.2	160		
Mar. 6, 1956	1,060	.9	.33	1.2	.3	5.3	.5	6	2.6	7.0	.0	.7	c45	4	0	45	5.6	120		
May 22, 1957	363	7.3	.26	2.4	1.0	4.0	1.1	4	1.9	7.3	.3	2.8	a54	10	7	42	5.1	100		
May 21, 1958	985	5.7	.24	1.6	1.0	2.1	.4	4	1.9	4.2	.2	1.4	g56	8	5	37	5.3	200		
Apr. 7, 1959	1,360	1.2	.13	1.3	.7	4.2	.6	6	2.8	6.7	.1	.4	g38	6	1	37	6.0	120		
May 16, 1960	552	5.2	.10	1.3	.4	4.0	.8	5	4.1	5.0	.1	.8	h43	5	1	36	5.9	100		

a Organic matter present; sum of mineral constituents 30 parts per million.
b Organic matter present; sum of mineral constituents 23 parts per million.
c Organic matter present; sum of mineral constituents 22 parts per million.
d Organic matter present; sum of mineral constituents 27 parts per million.
e Organic matter present; sum of mineral constituents 12 parts per million.
f Organic matter present; sum of mineral constituents 20 parts per million.
g Organic matter present; sum of mineral constituents 21 parts per million.
h Organic matter present; sum of mineral constituents 25 parts per million.

LYNCHES RIVER AT EFFINGHAM, S. C.

LOCATION.--At bridge on U. S. Highway 52, 75 feet upstream from Atlantic Coast Line Railroad bridge and 1 mile south of Effingham, Florence County.
DRAINAGE AREA.--1,030 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1951 to September 1952.
Water temperatures: October 1954 to September 1960.
EXTREMES, 1954-55.--Water temperatures: Maximum, 83°F Aug. 8; minimum, 38°F Dec. 23, 24, Feb. 1, 2.
EXTREMES, 1955-56.--Water temperatures: Maximum, 84°F July 29, 30, Aug. 13, 14; minimum, 41°F Dec. 17-19.
EXTREMES, 1956-57.--Water temperatures: Maximum, 83°F July 14, 15, Sept. 4, 5; minimum, 41°F Jan. 20, 21.
EXTREMES, 1957-58.--Water temperatures: Maximum, 83°F June 16, 17, Aug. 15-17; minimum, 39°F Feb. 19, 20.
EXTREMES, 1958-59.--Temperature attachment not operating properly Feb. 27 to Sept. 22.
EXTREMES, 1959-60.--Water temperatures: Maximum, 89°F Aug. 10, 13; minimum, 33°F Mar. 12.

Chemical analyses, in parts per million, water year October 1951 to September 1952

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 31, 1951	148	7.9	0.05	2.0	0.5	3.3	0.9	10	2.0	3.4	0.1	0.4	28	7	0	33	6.6	55	4	3
Nov. 29	272	8.6	.14	1.7	.9	3.6		8	2.9	4.2	.0	.3	34	8	1	37	6.4	25	5	4
Dec. 29	822	10	.08	2.4	1.2	5.1		6	7.4	6.5	.0	.3	50	11	6	55	5.9	30	8	6
Jan. 30, 1952	685	9.7	.14	2.8	1.0	4.8	1.4	7	5.8	8.1	.0	.2	54	11	5	51	6.7	30	9	8
Feb. 29	1,060	8.2	.04	5.0	1.7	5.4		9	12	7.8	.0	.4	54	20	12	54	6.0	26	6	6
Mar. 31	2,580	6.7	.22	2.8	1.0	4.0		8	5.2	5.5	.0	.2	48	11	5	48	5.9	50	11	9
Apr. 30	1,240	7.8	.15	3.0	.9	4.9	.6	11	3.5	5.8	.0	.2	50	11	2	47	6.1	40	14	11
May 29	577	8.4	.16	3.3	1.1	1.9		9	3.8	3.6	.0	.6	43	13	5	38	6.0	60	6	6
June 30	469	8.4	.16	3.3	1.2	4.3		13	4.1	5.0	.0	.7	49	13	3	49	6.2	30	9	8
Aug. 14	801	10	.19	2.4	.9	3.8	.7	8	4.2	4.1	.0	.8	46	10	3	42	6.1	25	11	10
Aug. 29	948	8.5	.06	4.8	1.5	2.4		9	9.1	4.5	.0	.3	54	18	11	64	6.7	55	9	7
Sept. 30	844	10	.44	2.4	.8	4.4	.6	9	2.5	6.1	.0	.5	52	9	2	48	5.9	95	20	11

Chemical analyses, in parts per million, of samples collected intermittently

Mar. 12, 1946	842	5.1	0.36	2.3	0.9	5.6		12	4.3	5.0	0.0	0.3	38	9	0	--	6.9	37		
Apr. 28, 1950	469	7.9	.09	2.9	1.0	3.6		12	2.8	4.0	.1	.6	31	11	2	42	6.0	5		
June 2	401	8.8	.54	1.8	.8	4.0		10	2.5	3.4	.1	.8	31	8	0	36	7.6	7		
Nov. 29	469	9.9	.06	1.8	.3	5.9		8	4.6	4.9	.0	.4	33	6	0	38	5.9	26		
June 1, 1951	198	8.7	.27	2.1	.8	4.0		11	2.6	3.6	.0	.6	29	9	0	38	7.0	5		
Dec. 31, 1952	685	9.2	.07	2.6	.9	4.6		8	5.0	5.8	.0	.4	39	10	4	42	6.3	20		
Mar. 31, 1953	1,420	6.2	.47	2.8	1.0	4.8		10	3.8	6.4	.0	.3	46	11	3	50	6.1	60		
Apr. 30	487	7.0	.02	3.2	.6	4.2		11	3.0	4.8	.1	.5	36	10	1	41	6.1	22		
June 1	295	9.8	.08	3.8	.8	1.8		7	3.1	4.8	.0	.9	47	13	7	50	5.8	38		
Oct. 30	288	7.4	.14	1.6	.0	4.5		12	2.6	3.5	.1	.2	29	8	0	30	6.3	21		
Feb. 26, 1954	853	8.6	.19	2.6	.4	5.2		8	4.5	5.5	.0	.5	40	8	2	44	6.1	32		
Apr. 29, 1955	631	6.0	.67	3.4	.8	5.3	1.2	10	4.9	6.8	.0	1.5	41	12	3	57	6.0	110		
Apr. 27, 1956	1,240	8.3	.09	2.8	.5	4.0	.5	10	3.3	5.5	.0	.3	47	9	1	50	6.2	50		
May 31, 1957	649	9.9	.20	2.9	1.2	6.1	.8	16	1.6	6.1	.1	1.4	55	12	0	58	6.1	65		
May 29, 1958	844	8.3	.34	3.2	1.2	2.7	.4	14	1.2	4.5	.2	1.3	a54	13	2	54	6.1	100		
Jan. 30, 1959	1,100	8.4	.11	2.2	.8	4.9	.8	9	2.9	5.0	.0	.7	a51	9	1	43	6.0	55		
Apr. 28, 1960	1,140	6.2	.37	2.8	1.2	4.2	1.2	15	.8	4.3	.1	1.1	47	12	0	48	6.4	80		

a Organic matter present; sum of mineral constituents 30 parts per million.

PEE DEE RIVER BASIN--Continued

LYNCHES RIVER AT EFFINGHAM, S. C.--Continued

Temperature (°F) of water, water year October 1954 to September 1955
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	77	74	56	54	49	47	48	48	39	38	56	54	55	53	66	64	75	74	76	75	80	80	81	80
2	76	74	54	53	48	47	49	48	41	38	57	56	56	55	66	65	74	73	76	75	81	79	80	79
3	76	74	53	50	47	46	49	49	42	41	57	57	59	56	67	65	74	72	77	76	81	80	79	77
4	78	75	50	49	46	45	49	48	42	41	59	57	60	58	68	66	73	72	77	77	81	80	77	77
5	78	77	50	49	45	44	49	48	41	40	62	59	59	59	69	67	74	72	78	76	81	80	77	77
6	79	77	50	50	45	44	50	49	43	40	62	62	60	59	71	69	74	73	78	77	82	80	77	77
7	78	70	50	49	44	42	50	50	48	43	62	59	61	60	71	69	75	74	79	78	82	81	77	77
8	70	67	49	49	42	41	50	48	48	48	59	57	61	60	71	69	75	74	80	79	83	81	77	77
9	69	66	49	49	41	41	48	47	49	48	57	55	60	59	72	70	74	73	80	79	82	81	77	76
10	70	67	49	49	42	41	48	47	49	48	55	55	60	59	72	70	73	72	80	79	82	80	76	75
11	70	68	49	49	42	41	48	48	48	48	57	55	60	60	72	71	74	72	79	78	80	79	76	75
12	70	68	50	49	41	41	48	46	48	45	60	57	61	60	72	71	75	73	79	78	79	78	76	75
13	72	69	50	50	42	41	46	45	45	41	62	60	62	61	72	71	75	74	79	78	79	77	76	74
14	72	71	51	50	42	42	45	43	41	40	62	61	62	62	71	70	74	74	79	78	80	79	74	73
15	72	68	53	51	42	42	43	43	40	40	61	60	65	62	71	70	73	72	78	76	80	79	75	73
16	68	65	54	53	42	41	43	43	42	40	62	60	66	65	70	70	72	71	78	76	80	80	76	74
17	65	62	55	54	41	41	43	42	45	42	62	61	68	66	71	70	72	72	78	78	80	79	76	75
18	62	60	57	55	43	41	42	41	47	45	62	61	68	68	71	70	72	71	79	78	81	79	75	74
19	61	60	58	57	43	43	41	41	47	47	62	60	69	68	71	69	72	71	79	78	82	80	74	73
20	60	58	59	58	43	41	41	40	47	47	60	58	69	69	73	70	74	71	78	77	82	81	73	72
21	58	56	59	58	41	40	40	40	49	47	59	57	69	69	72	72	75	74	78	77	81	80	75	73
22	56	55	58	56	40	39	40	40	52	49	61	59	69	69	72	71	75	74	77	77	82	81	76	74
23	55	55	56	54	39	38	40	40	53	52	61	59	69	69	72	72	77	75	78	77	81	81	76	75
24	56	55	54	53	39	38	40	40	53	53	59	57	70	69	73	72	78	76	79	78	81	79	77	76
25	57	56	53	51	40	39	40	39	53	52	58	57	70	70	74	72	77	76	79	78	79	77	77	78
26	57	56	51	49	41	40	39	39	52	50	60	58	70	68	76	74	77	76	80	78	77	76	77	74
27	59	57	49	48	42	41	39	39	51	50	59	56	68	66	78	76	76	75	81	79	77	75	74	73
28	60	59	49	48	45	42	40	39	54	51	56	53	66	65	78	76	77	75	82	81	77	76	74	73
29	62	60	50	49	48	45	40	40	--	--	53	51	65	64	78	77	77	75	82	81	79	77	75	74
30	62	59	50	49	49	48	40	40	--	--	52	51	65	64	77	76	77	75	82	81	79	78	76	75
31	59	56	--	--	49	48	40	39	--	--	54	51	--	--	76	75	--	--	81	80	81	78	--	--
Average	67	64	52	51	43	42	44	44	47	45	59	57	64	63	72	71	75	73	79	78	80	79	76	75

LYNCHES RIVER AT EFFINGHAM, S. C.--Continued

Temperature (°F) of water, water year October 1955 to September 1956
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	78	75	60	58	47	45	44	43	47	46	53	52	58	57	68	67	76	75	80	79	80	80	80	79
2	75	74	58	57	45	45	43	43	46	46	52	52	59	58	68	67	74	73	82	80	81	80	80	80
3	74	73	57	56	46	45	43	42	49	46	52	52	62	59	68	67	73	72	82	81	81	80	80	79
4	73	72	57	58	50	46	44	43	50	49	53	52	63	62	68	67	72	71	82	80	80	79	79	79
5	73	72	56	54	52	50	44	44	50	50	54	53	63	63	68	68	72	71	82	81	81	79	79	79
6	73	72	54	53	52	52	44	43	52	50	58	54	63	62	68	67	72	71	83	80	83	80	79	78
7	73	72	53	53	52	51	44	43	52	52	61	58	64	63	67	67	72	70	83	81	83	81	79	78
8	73	72	53	53	51	50	44	43	52	52	61	61	64	62	67	66	70	69	82	81	82	81	79	77
9	73	71	53	53	50	50	43	42	52	52	61	58	62	59	66	64	71	69	82	81	82	81	77	73
10	71	69	53	53	50	47	42	42	54	52	58	56	59	58	64	63	73	71	81	81	81	80	73	71
11	69	67	53	52	47	46	43	42	55	54	57	56	58	56	64	63	74	72	81	79	82	81	71	69
12	68	67	53	52	46	44	44	43	55	54	60	57	56	55	65	64	76	74	81	79	83	81	70	69
13	68	67	54	53	44	43	44	44	54	52	61	60	56	55	67	65	77	75	82	80	84	83	71	69
14	69	68	57	54	43	42	44	44	52	51	61	61	58	56	69	67	77	76	82	80	84	82	73	71
15	69	66	57	57	43	42	44	43	52	52	61	60	60	58	71	69	77	75	80	79	83	81	75	72
16	66	64	58	57	43	43	43	43	53	52	60	56	62	60	71	71	78	76	81	80	82	81	76	74
17	64	64	59	58	43	41	43	43	54	53	56	54	62	60	71	70	78	77	82	80	81	80	76	75
18	64	62	59	57	41	41	43	43	56	54	54	53	60	58	70	69	78	77	82	80	81	80	76	75
19	62	61	57	56	43	41	44	43	57	56	54	53	58	57	71	70	78	77	80	80	82	81	75	74
20	61	60	56	53	43	43	44	44	58	57	54	52	57	57	72	71	77	75	80	79	82	81	75	74
21	61	60	53	52	43	43	44	44	58	56	52	51	57	57	72	72	76	74	82	80	82	80	75	73
22	62	61	52	51	43	43	44	44	56	52	51	50	57	57	73	71	78	75	83	81	80	77	72	71
23	62	61	53	52	43	42	44	44	52	50	51	50	58	57	74	72	78	77	82	81	77	76	73	71
24	63	62	55	53	45	42	44	44	50	50	52	51	58	57	74	72	79	78	82	81	78	76	73	72
25	63	61	55	54	48	45	44	43	53	50	52	52	58	58	72	69	79	78	82	80	79	77	72	70
26	61	60	54	53	48	48	43	43	53	53	52	52	60	58	69	67	79	78	82	81	79	78	70	68
27	60	59	53	52	48	48	43	43	53	52	56	52	62	60	70	68	80	79	82	81	79	78	68	66
28	61	60	52	52	48	46	43	43	54	52	59	56	64	62	72	69	80	80	83	81	79	79	66	65
29	62	61	52	49	46	45	44	43	54	53	59	59	66	64	72	72	81	79	84	82	80	78	65	64
30	63	62	49	47	45	45	47	44	--	--	59	58	68	66	73	71	81	80	84	82	81	79	65	65
31	62	60	--	--	45	44	47	47	--	--	58	58	--	--	76	73	--	--	82	80	81	80	--	--
Average	67	66	55	54	46	45	44	43	53	52	56	55	60	59	70	68	76	75	82	80	81	80	74	73

PEE DEE RIVER BASIN--Continued

LYNCHES RIVER AT EFFINGHAM, S. C.--Continued

Temperature (°F) of water, water year October 1956 to September 1957
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	65	65	64	63	46	46	47	47	58	56	57	56	57	57	74	73	72	72	80	79	81	79	81	80
2	65	65	65	64	46	45	47	47	56	58	56	55	61	57	73	73	73	72	79	79	81	80	81	80
3	67	65	65	65	45	45	47	45	58	58	55	54	63	61	73	70	74	73	79	78	81	81	81	80
4	68	67	65	65	46	45	45	44	58	58	54	53	64	63	70	64	74	74	79	78	82	81	83	81
5	69	68	65	64	46	46	44	44	59	58	53	51	64	64	64	62	74	74	80	78	82	81	83	81
6	69	69	64	62	47	46	45	44	59	58	51	50	64	63	64	63	74	73	81	79	82	81	82	81
7	70	69	62	61	48	47	46	45	58	58	50	49	63	62	64	63	76	74	80	79	81	79	82	81
8	70	68	61	60	50	48	46	46	58	58	50	50	63	63	64	64	76	75	81	80	79	78	81	78
9	68	66	60	58	52	50	48	46	58	58	50	48	63	63	64	64	76	74	80	80	78	77	78	77
10	66	66	58	55	52	52	50	48	59	58	48	48	63	61	65	64	74	73	81	80	78	77	78	78
11	66	64	55	54	52	51	50	50	59	59	49	48	61	60	65	65	73	72	81	80	78	78	79	78
12	64	63	54	54	51	51	50	49	59	56	52	49	61	60	68	65	73	72	80	79	80	78	80	79
13	63	62	54	54	53	51	49	49	56	54	53	52	61	61	69	68	75	73	81	79	80	79	80	79
14	63	62	54	53	55	53	49	49	54	53	56	53	61	59	72	69	76	74	83	81	80	80	81	80
15	63	63	53	53	56	55	49	48	53	52	58	56	59	57	72	72	77	75	83	81	80	79	81	80
16	64	63	54	53	58	56	48	46	52	51	59	58	57	56	72	71	77	76	81	79	81	79	80	80
17	64	63	56	54	58	58	46	45	51	50	59	57	57	56	71	71	79	77	80	80	81	81	80	79
18	64	63	56	56	58	58	45	43	50	50	59	59	58	57	71	71	80	79	80	79	81	80	80	79
19	65	64	56	54	58	58	43	42	50	50	59	59	60	58	71	71	81	79	79	78	80	78	80	79
20	65	64	54	53	56	57	42	41	52	50	59	59	63	60	71	71	80	78	79	79	78	77	79	78
21	64	64	54	53	57	57	42	41	52	51	59	59	65	63	71	71	78	77	79	79	77	76	79	78
22	65	64	54	54	57	57	46	42	51	50	59	56	67	65	71	71	79	78	80	79	77	76	79	78
23	66	65	54	51	58	57	50	46	50	50	56	55	69	67	72	71	79	78	80	79	77	76	79	79
24	66	65	51	49	58	58	50	50	51	50	55	55	69	68	72	71	79	78	80	79	76	74	79	78
25	66	65	49	47	58	55	50	49	53	51	55	55	70	69	72	72	79	78	80	79	74	73	78	75
26	65	64	47	47	55	52	49	48	57	53	56	55	70	69	74	72	78	77	79	78	75	73	75	74
27	64	63	47	47	52	50	49	48	57	57	56	56	72	70	74	73	78	76	78	76	76	75	74	73
28	63	63	47	46	50	50	52	49	57	57	56	56	72	71	74	74	79	78	76	75	76	75	73	69
29	63	63	46	46	50	50	54	52	--	--	56	56	73	72	74	74	80	78	77	76	77	76	69	68
30	63	63	46	46	50	48	55	54	--	--	56	56	73	72	74	72	80	79	78	77	79	77	68	68
31	63	63	--	--	48	47	56	55	--	--	57	56	--	--	72	72	--	--	79	78	80	79	--	--
Average	65	65	56	55	53	52	48	47	55	54	55	54	64	63	70	69	77	76	80	79	79	78	79	78

LYNCHES RIVER AT EFFINGHAM, S. C.--Continued

Temperature (°F) of water, water year October 1957 to September 1958
/Continuous ethyl alcohol-actuated thermograph/

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	68	68	58	57	58	56	50	49	47	46	56	55	58	57	69	68	--	--	74	73	81	80	75	75
2	68	68	59	58	56	54	49	48	47	46	56	56	59	58	69	68	--	--	74	74	82	81	75	75
3	69	68	80	59	54	53	48	46	46	46	57	56	61	59	70	69	--	--	74	74	82	81	75	75
4	69	68	61	60	53	53	46	44	46	44	57	57	61	60	71	70	--	--	74	74	81	81	76	75
5	68	67	61	61	53	51	44	42	44	44	57	56	60	59	71	71	--	--	74	74	81	80	76	75
6	68	67	61	60	51	49	42	42	45	44	56	55	61	59	71	71	--	--	75	74	81	79	76	75
7	67	67	60	58	50	49	42	42	48	45	55	55	63	61	71	68	--	--	75	75	80	79	77	76
8	67	66	59	58	52	50	42	42	48	48	56	55	63	63	68	66	--	--	76	75	80	79	77	76
9	67	66	60	59	53	52	42	41	48	47	56	56	63	63	66	65	--	--	77	76	80	79	77	76
10	67	66	59	56	53	53	41	40	47	45	56	56	63	62	66	66	--	--			81	79	76	75
11	67	67	56	54	53	51	41	40	45	45	56	56	62	62	67	66	--	--			82	81	76	76
12	67	66	54	53	51	48	42	41	45	45	57	56	62	62	68	67	--	--	a77	a76	82	81	76	72
13	66	65	53	53	48	43	43	42	45	45	57	57	62	62	68	68	--	--			81	80	72	71
14	65	64	54	53	43	43	45	43	45	44	57	56	63	62	68	68	81	79			82	80	73	71
15	64	64	57	53	44	43	46	45	44	44	56	54	63	63	68	68	82	80	77	77	83	81	73	72
16	64	64	58	57	46	44	46	46	44	44	54	54	63	61	69	68	83	82	77	77	83	81	75	73
17	65	64	59	58	48	46	46	46	44	42	54	54	61	61	70	69	83	80	78	77	83	82	76	75
18	66	65	62	59	49	48	46	45	42	40	54	54	63	61	71	70	80	76	78	78	82	81	78	76
19	66	65	63	62	51	49	45	44	40	39	54	54	65	63	71	71	--	--	78	77	81	79	76	76
20	65	63	63	62	53	51	44	44	40	39	54	53	67	65	71	71	--	--	78	78	80	79	76	74
21	63	61	62	60	53	53	46	44	40	40	53	52	68	67	71	71	--	--	79	78	80	79	75	74
22	62	61	60	59	53	53	47	46	42	40	52	52	68	68	71	71	--	--	80	79	81	79	76	75
23	62	61	59	58	53	52	47	47	44	42	53	52	68	67	72	71	72	71	80	80	82	80	76	75
24	63	62	58	57	53	52	47	47	46	44	53	53	68	67	73	72	71	70	81	80	81	80	76	75
25	64	63	57	57	54	53	47	47	49	46	54	53	70	68	73	73	72	71	81	80	82	80	75	74
26	63	62	57	56	55	54	47	47	52	49	54	54	70	70	73	73	73	72	80	79	81	78	75	74
27	62	61	56	55	55	54	48	47	54	52	54	53	70	69	73	72	74	73	80	79	78	75	75	75
28	61	58	55	55	54	53	48	48	55	54	53	53	69	69	73	72	74	73	80	80	75	74	75	73
29	58	57	57	55	53	53	48	48	--	--	55	53	69	69	73	72	74	73	81	80	74	73	73	71
30	57	57	58	57	53	51	48	47	--	--	55	55	69	69	--	--	73	73	81	80	75	74	72	71
31	57	57	--	--	51	50	47	46	--	--	57	55	--	--	--	--	--	--	81	80	75	74	--	--
Average	65	64	59	57	52	50	45	45	46	45	55	55	64	64	--	--	--	--	--	--	80	79	75	74

a No temperature record; temperatures estimated.

PEE DEE RIVER BASIN--Continued

LYNCHES RIVER AT EFFINGHAM, S. C.--Continued

Temperature (°F) of water, water year October 1958 to September 1959
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	73	72	57	56	51	50	46	46	50	50													--	--
2	73	68	58	57	50	50	47	46	50	48													--	--
3	66	66	58	57	50	50	47	47	48	47													--	--
4	66	65	58	57	51	50	47	47	47	46													--	--
5	67	65	58	57	51	50	47	45	47	46													--	--
6	66	65	58	58	51	50	45	43	47	47													--	--
7	65	63	58	58	50	49	43	41	47	46													--	--
8	64	63	58	57	49	48	42	41	47	47													--	--
9	64	64	58	57	48	47	42	42	49	47													--	--
10	65	64	58	58	47	47	42	41	50	49													--	--
11	65	65	58	56	47	43	41	40	51	50													--	--
12	65	64	56	55	43	41	40	39	51	51													--	--
13	64	63	55	54	41	41	40	39	51	51													--	--
14	62	62	56	55	41	40	42	40	51	51													--	--
15	62	62	57	56	40	40	44	42	51	51													--	--
16	63	62	59	57	40	38	45	44	51	51													--	--
17	63	63	61	59	38	38	45	43	51	51													--	--
18	64	63	62	61	36	38	43	41	51	51													--	--
19	64	63	62	62	39	38	41	39	51	51													--	--
20	63	62	62	59	39	39	40	40	51	47													--	--
21	62	61	59	57	40	39	45	40	47	45													--	--
22	61	61	57	56	40	40	47	45	45	44													--	--
23	62	61	56	55	41	40	47	46	44	44													69	65
24	62	61	58	56	43	41	46	45	45	44													70	66
25	62	62	57	56	43	43	45	45	45	45													71	67
26	62	61	57	56	43	43	47	45	45	45													72	67
27	62	61	57	56	43	43	48	47	--	--													72	68
28	61	59	58	55	44	43	48	48	--	--													73	69
29	59	58	55	54	46	44	48	48	--	--													73	71
30	58	57	54	51	46	46	49	48	--	--													72	71
31	57	56	--	--	46	46	50	49	--	--													--	--
Average	64	63	58	57	44	44	45	44	--	--													--	--

LYNCHES RIVER AT EFFINGHAM, S. C.--Continued

Temperature (°F) of water, water year October 1959 to September 1960
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	74	72	63	60	44	41	46	43	46	44	48	45	66	62	68	65	79	74	85	81	78	74	82	78
2	74	71	63	61	44	42	43	42	48	45	45	40	66	64	68	65	78	75	84	80	79	77	81	78
3	72	70	62	58	47	44	50	43	48	46	40	38	66	64	66	63	76	74	87	81	82	78	82	77
4	72	69	58	56	49	46	50	48	46	44	38	36	66	65	67	62	78	74	87	82	83	80	81	77
5	72	70	60	58	49	47	48	46	48	44	38	36	65	62	68	64	80	75	86	83	83	81	80	76
6	72	69	64	60	48	47	46	46	49	48	37	35	63	60	69	64	82	76	85	79	84	81	80	76
7	72	70	64	56	47	45	46	46	49	47	37	35	65	61	68	65	81	78	79	78	87	82	80	77
8	71	71	56	54	45	42	46	44	49	46	39	36	66	62	67	66	80	77	80	77	88	84	80	77
9	72	71	54	53	45	42	46	43	49	46	39	36	67	65	67	63	78	74	81	77	88	85	81	78
10	76	72	54	51	45	44	48	45	52	49	36	35	66	61	66	63	75	71	81	78	89	85	62	78
11	76	75	52	50	47	44	50	47	55	52	36	34	61	58	64	62	75	69	82	79	87	85	81	76
12	76	72	54	50	49	47	50	48	54	50	35	33	62	57	66	63	78	73	83	78	88	83	77	74
13	72	69	55	53	51	49	52	48	52	45	39	34	64	59	65	62	82	76	85	80	89	84	78	74
14	71	69	58	55	51	48	52	50	45	43	40	36	67	62	64	60	83	78	86	82	88	84	76	72
15	69	63	59	58	48	45	55	52	44	41	41	40	68	65	67	61	83	78	84	80	86	81	73	71
16	63	62	59	57	49	46	55	53	45	42	41	40	70	66	69	63	84	79	85	80	83	79	74	71
17	62	61	59	57	51	49	53	51	46	43	43	40	72	67	72	63	83	80	86	81	81	79	74	72
18	65	62	57	51	57	51	51	50	47	46	45	43	71	69	75	69	83	79	86	80	80	77	76	72
19	64	61	51	48	57	54	50	48	46	44	47	43	70	66	75	72	84	79	84	80	80	76	78	74
20	62	60	48	46	54	49	48	44	45	42	47	46	69	65	76	71	83	80	83	80	80	76	78	76
21	60	60	49	48	49	45	44	41	44	42	47	44	68	64	78	73	82	79	87	80	83	78	80	76
22	61	60	54	49	45	42	41	38	44	43	48	43	71	66	80	75	81	77	86	82	82	80	80	76
23	63	61	54	52	43	40	38	36	44	42	47	44	74	69	81	75	80	77	85	82	81	79	78	74
24	63	62	55	53	40	40	37	35	45	42	50	45	75	70	81	75	83	78	84	81	81	78	76	72
25	62	59	55	53	44	40	38	35	47	45	51	49	76	72	80	77	84	80	86	81	80	78	75	71
26	59	57	53	50	44	43	39	35	49	46	54	50	77	72	80	75	82	75	87	82	78	76	73	70
27	58	57	53	50	48	44	40	38	48	46	58	52	76	73	80	77	77	73	85	82	77	75	73	69
28	58	56	55	53	52	48	43	40	47	46	59	57	73	66	81	76	78	74	84	78	80	75	72	69
29	57	56	54	49	52	51	45	43	49	46	62	59	67	62	82	76	80	75	78	74	81	77	71	69
30	57	56	49	44	51	47	45	45	--	--	62	62	66	63	80	77	84	78	76	72	81	78	74	71
31	60	57	--	--	47	45	45	45	--	--	65	61	--	--	81	75	--	--	76	75	81	78	--	--
Average	67	65	56	53	48	45	46	44	48	45	46	43	68	65	73	68	81	76	84	80	83	79	78	74

LYNCHES RIVER NEAR BISHOPVILLE, S. C.

LOCATION.--At gaging station at bridge on U. S. Highway 15, 1 mile upstream from Seaboard Air Line Railroad bridge, 2.9 miles northeast of Bishopville, Lee County, and 3.3 miles downstream from Bells Branch.
DRAINAGE AREA.--675 square miles.
RECORDS AVAILABLE.--Chemical analyses: Daily samples, October 1945 to September 1946; monthly samples, October 1957 to September 1958.
Water temperatures: Daily observations October 1945 to September 1946.
EXTREMES, 1945-46.--Dissolved solids: Maximum, 41 ppm Oct. 1-10, Dec. 1-10; minimum, 28 ppm Sept. 1-10.
Hardness: Maximum, 10 ppm Dec. 1-10, Jan. 21-31, Feb. 11-28, Mar. 1-10, Apr. 1-30, May 1-10, July 21-31; minimum, 7 ppm Nov. 11-30, Aug. 21-31, Sept. 1-10, 21-30.
Water temperatures: Maximum, 78°F June 23, July 11, 12, 14, 17; minimum, 36°F Dec. 20-22.
REMARKS.--Records of suspended matter of composite samples from October 1945 to September 1946 available in district office at Raleigh, N. C.

Chemical analyses, in parts per million, water year October 1945 to September 1946

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 1-10, 1945....	916	8.0	0.03	1.8	1.0	3.3	0.7	10	3.2	3.5	0.0	0.2	41	9	0		6.2	35	12	9
Oct. 11-20.....	629	8.4	.05	1.6	.9	2.9		7	2.9	3.5	.0	.4	32	8	2		6.1	17	9	4
Oct. 21-31.....	663	8.4	.14	1.8	.9	2.6		7	3.0	3.4	.0	.2	33	8	2		6.0	22	9	6
Nov. 1-10.....	610	7.9	.02	1.7	.8	3.4		7	3.0	3.8	.2	.3	33	8	2		6.4	22	9	4
Nov. 11-20.....	566	7.9	.03	1.6	.8	3.8		7	3.7	3.6	.2	.3	33	7	2		6.2	24	7	5
Nov. 21-30.....	540	8.0	.01	1.8	.7	4.0		8	2.9	3.8	.2	.2	29	7	0		6.2	15	5	4
Dec. 1-10.....	976	7.5	.21	1.9	1.2	5.4		9	7.8	4.0	.1	.2	41	10	2		6.1	35	--	--
Dec. 11-20.....	930	7.8	.01	1.8	1.0	3.4		8	4.4	4.2	.1	.3	33	9	4		6.0	15	4	4
Dec. 21-31.....	1,626	7.1	.01	1.9	1.0	3.4		6	4.9	4.2	.1	.2	35	9	4		6.2	19	7	5
Jan. 1-10, 1946....	1,994	6.7	.01	1.9	1.0	3.3	1.2	7	5.3	4.0	.1	.2	34	9	3		6.0	20	7	6
Jan. 11-20.....	1,228	7.1	.01	1.9	1.0	3.1		6	4.2	4.2	.1	.2	34	9	4		6.1	20	7	5
Jan. 21-31.....	1,279	7.4	.01	2.2	1.0	3.0		7	4.9	3.5	.0	.3	33	10	4		6.3	20	6	4
Feb. 1-10.....	860	7.0	.01	2.0	1.0	4.1		8	4.6	4.4	.1	.3	33	9	3		6.1	19	6	4
Feb. 11-19.....	1,128	6.9	.02	2.1	1.1	4.2		9	4.5	4.5	.1	.2	36	10	2		--	15	6	5
Feb. 20-28.....	967	6.0	.01	2.0	1.1	3.5		8	3.8	4.4	.1	.1	33	10	3		6.1	15	5	5
Mar. 1-10.....	707	6.7	.03	2.2	1.0	3.2		8	4.0	3.6	.1	.5	33	10	3		6.2	22	5	3
Mar. 11-20.....	849	6.4	.01	1.8	1.0	4.3		8	4.2	4.6	.1	.4	36	9	2		6.2	20	6	4
Mar. 21-31.....	1,039	6.7	.01	1.8	1.1	3.9		8	4.8	3.8	.1	.4	37	9	2		6.1	25	7	4
Apr. 1-10.....	733	7.4	.02	1.9	1.2	3.1	.4	9	3.4	3.9	.0	.2	35	10	2		6.2	24	6	5
Apr. 11-20.....	926	6.8	.02	2.0	1.1	2.8		8	3.7	3.5	.0	.3	34	10	3		6.1	28	6	4
Apr. 21-30.....	1,113	7.1	.20	2.2	1.0	3.2		9	3.8	3.6	.0	.3	38	10	2		6.1	33	7	--
May 1-10.....	1,530	7.8	.01	2.4	.9	2.4		8	3.2	3.4	.0	.3	37	10	3		6.2	34	7	6
May 11-20.....	775	7.6	.02	1.7	.8	3.6		8	3.1	3.8	.0	.3	34	8	1		6.3	24	5	4
May 21-31.....	682	7.8	.02	1.9	.9	3.4		9	2.9	3.8	.0	.2	36	8	1		6.3	27	6	5
June 1-10.....	424	7.4	.09	1.8	1.0	2.7		8	3.3	3.0	.0	.4	32	9	2		6.7	20	3	3
June 11-20.....	385	7.3	.15	1.7	.8	2.6	.8	7	3.0	3.0	.0	.4	30	8	2		6.9	19	3	3
June 21-30.....	332	7.6	.08	1.7	.8	2.6		7	2.9	2.9	.0	.4	29	8	2		6.6	16	4	2

July 1-10	398	7.8	.01	2.1	.7	3.0		7	3.7	3.0	.1	.6	29	8	2		6.3	10	5	3
July 11-20	352	7.2	.01	1.7	.9	3.3		9	3.0	3.1	.0	.4	30	8	1		6.4	15	--	--
July 21-31	508	8.1	.04	2.6	.9	3.5		7	6.9	3.1	.0	.7	36	10	4		5.8	14	5	4
Aug. 1-10	769	8.2	.01	1.8	.8	2.9		6	4.2	3.2	.0	.5	36	8	3		6.4	24	7	6
Aug. 11-20	334	8.6	.01	2.0	.7	3.4		8	3.8	3.2	.0	.5	32	8	1		6.5	13	4	3
Aug. 21-31	399	8.6	.01	1.6	.7	3.2		7	3.3	3.0	.0	.4	30	7	1		6.2	10	6	4
Sept. 1-10	298	8.9	.23	1.3	.8	2.7		6	2.7	3.1	.0	.4	26	7	2		6.1	12	3	2
Sept. 11-20	311	7.5	.01	1.6	.9	2.7		7	3.2	3.0	.0	.3	29	8	2		6.2	18	4	2
Sept. 21-30	259	8.0	.01	1.4	.9	2.7	.8	7	2.9	3.0	.0	.3	28	7	1		6.2	14	4	3
Average	779	7.5	0.04	1.9	0.9	3.4		8	3.9	3.6	0.0	0.3	33	8	2		--	21	6	4
Chemical analyses, in parts per million, of samples collected monthly, water year October 1957 to September 1958																				
Oct. 22, 1957	214	8.3	0.12	1.6	1.0	5.0	0.5	12	3.4	5.5	0.0	0.7	49	8	0	38	6.0	35		
Nov. 15	290	9.9	.13	2.8	.4	4.6	.6	12	2.5	5.5	.0	.9	50	9	0	38	6.0	35		
Dec. 12	1,350	9.3	.00	2.0	1.2	3.3	.7	7	4.1	6.0	.2	.6	39	10	4	46	5.9	50		
Jan. 10, 1958	1,040	8.9	.05	2.4	1.2	3.5	.4	8	1.0	6.0	.0	1.3	39	11	4	46	5.9	80		
Feb. 12	1,970	8.2	.07	2.4	.7	2.7	.4	6	2.6	4.0	.0	1.3	a43	9	4	40	5.8	60		
Mar. 26	1,170	5.8	.08	1.6	.8	3.9	.8	7	2.6	5.5	.1	1.0	33	7	2	37	5.8	35		
Apr. 22	1,400	6.3	.11	1.8	1.1	4.0	.9	8	3.8	4.5	.1	.8	38	9	2	40	5.8	60		
May 7	2,360	7.4	.33	2.4	1.2	2.8	.8	7	5.6	3.5	.0	1.1	45	11	5	38	5.6	100		
June 19	326	9.7	.05	2.0	1.0	3.8	1.2	11	2.2	3.4	.1	1.1	36	9	0	37	6.9	20		
July 9	870	8.7	.08	2.4	.3	2.4	1.0	8	2.0	3.5	.1	.9	a45	7	1	29	6.5	40		
Aug. 8	380	9.2	.04	2.4	.5	3.8	1.1	11	2.1	3.6	.1	1.2	38	7	0	35	6.7	30		
Sept. 11	220	8.1	.02	1.6	.6	3.8	.9	10	1.1	4.1	.0	1.1	34	7	0	32	6.3	25		
Chemical analyses, in parts per million, of samples collected intermittently																				
Nov. 28, 1949	739	10	0.03	2.6	1.9	3.9		11	4.9	6.1	0.0	0.1	43	14	5	48	5.9	23		
Mar. 31, 1950	739	8.1	.08	2.4	1.2	4.6		12	3.7	4.8	.0	.5	36	11	1	42	6.1	28		
May 23	257	7.1	.10	1.8	.8	3.6		9	2.2	3.6	.1	.7	26	8	0	36	5.7	6		
Nov. 29	350	13	.08	1.5	.8	3.1		8	1.3	4.0	.0	.4	31	7	0	32	6.0	17		
Dec. 12, 1951	295	11	.04	2.6	.9	2.5		6	4.5	4.2	.0	.2	37	10	5	40	6.0	35		
May 15, 1952	411	8.6	.13	1.6	.8	4.1		8	3.7	3.9	.0	.5	34	7	1	37	5.6	16		
Apr. 24, 1953	510	7.9	.02	1.8	.5	5.0		10	3.0	4.0	.0	.7	33	7	0	39	6.0	29		
June 12	350	11	.03	3.0	.9	1.6		7	2.9	3.8	.0	.8	34	11	5	35	6.0	12		
Mar. 12, 1954	510	8.0	.20	1.8	.4	4.2		7	3.4	4.0	.0	.3	32	6	0	38	6.3	17		
May 27	295	7.7	.37	1.4	.7	2.7	0.5	7	2.6	3.0	.0	.9	29	6	1	32	5.7	32		
May 26, 1955	329	8.9	.07	2.5	.5	3.5	.9	10	2.1	3.5	.1	1.1	36	8	0	40	7.3	17		
Mar. 7, 1956	656	8.0	.04	2.6	1.3	3.5	.6	10	3.8	4.7	.1	1.0	39	12	4	45	6.1	20		
Apr. 27	461	8.3	.08	2.4	.5	3.2	.4	8	1.8	4.2	.0	.6	34	8	1	41	6.3	25		
May 23, 1957	546	10	.19	2.0	1.2	3.9	.6	9	1.2	6.5	.2	3.3	51	10	3	48	5.6	40		
Apr. 9, 1959	802	8.1	.05	2.2	1.1	4.3	.7	12	2.5	4.8	.0	1.5	40	10	0	42	6.6	40		
Feb. 25, 1960	2,000	6.5	.04	1.8	.9	3.3	.8	9	2.5	4.3	.1	.8	37	8	1	36	6.7	20		

a Organic matter present; sum of mineral constituents 25 parts per million.

PEE DEE RIVER BASIN--Continued

LYNCHES RIVER NEAR BISHOPVILLE, S. C.--Continued

Temperature (°F) of water, water year October 1945 to September 1946

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	58	47	44	45	50	59	61	68	74	74	71
2	70	59	58	41	46	51	62	64	70	76	75	69
3	69	61	45	40	45	53	64	64	68	76	75	69
4	66	59	47	40	43	52	59	63	69	75	77	69
5	65	55	47	42	43	53	64	61	--	73	75	69
6	65	54	46	49	45	55	64	61	68	74	75	68
7	68	53	45	51	46	57	65	62	69	76	75	70
8	66	53	44	55	46	59	63	62	70	75	74	73
9	65	55	46	57	48	58	64	62	72	77	74	73
10	62	57	47	58	56	49	64	62	71	77	75	74
11	61	59	44	56	48	55	61	64	73	78	76	75
12	58	59	44	57	47	53	61	67	74	78	75	74
13	58	60	42	56	47	54	51	66	75	76	75	73
14	60	61	41	52	51	56	59	67	75	78	74	71
15	58	57	43	50	47	57	58	67	74	77	75	71
16	55	55	42	48	46	59	60	68	74	76	75	69
17	55	54	39	42	50	56	56	68	74	78	75	68
18	55	55	47	39	47	60	57	70	75	74	77	68
19	56	54	42	39	49	58	57	72	75	72	76	68
20	57	54	36	41	48	55	58	70	76	74	77	--
21	61	53	36	41	46	52	62	70	77	76	74	69
22	59	55	36	43	46	53	60	69	77	74	75	71
23	62	51	37	40	48	54	63	68	78	75	74	71
24	62	49	37	38	50	59	64	68	73	77	73	72
25	62	48	40	39	48	58	65	69	73	75	74	72
26	82	45	42	40	48	60	65	71	73	76	70	70
27	59	45	42	43	50	62	62	69	73	75	72	70
28	59	47	43	42	51	63	60	68	74	75	72	71
29	57	57	43	--	--	63	58	68	74	72	72	71
30	57	--	45	44	--	62	59	67	75	73	72	69
31	58	--	45	46	--	63	--	68	--	73	69	--
Average	61	55	43	46	48	56	61	66	73	75	74	71

PEE DEE RIVER AT PEEDEE, S. C.

LOCATION.--At bridge on U. S. Highway 76 at Peedee, Marion County, 0.2 mile downstream from Atlantic Coast Line Railroad bridge and 8-1/2 miles downstream from Black Creek.
DRAINAGE AREA.--8,830 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1948 to September 1949.

Chemical analyses, in parts per million, water year October 1948 to September 1949

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 15, 1948	5,820	9.4	0.05	2.9	1.4	4.8	0.7	18	4.2	4.6	0.1	0.4	43	13	0	--	6.6	25	7	5
Nov. 20	9,190	10	.08	3.6	1.5	7.1		23	4.6	4.5	.0	.6	45	15	0	57	6.6	11	6	5
Dec. 18	11,600	9.9	.09	3.1	1.4	6.0		18	4.9	4.4	.0	.5	45	14	0	53	6.6	20	8	7
Jan. 15, 1949	21,100	9.6	.03	3.1	1.3	5.0	.8	18	4.9	4.6	.0	.5	38	13	0	47	6.6	11	5	4
Feb. 16	15,000	8.7	.04	3.1	1.4	5.7		18	4.4	4.1	.1	.5	40	13	0	50	6.3	16	6	5
Mar. 17	10,100	9.3	.03	4.2	1.7	4.9		22	3.8	3.9	.1	.6	42	18	0	55	6.9	7	4	3
Apr. 17	14,700	11	.02	3.9	1.7	5.2	.6	24	4.0	3.6	.1	.5	45	17	0	59	6.8	7	4	4
May 15	23,400	11	.06	4.0	1.6	4.3		20	4.1	3.2	.1	.8	43	17	0	54	6.4	5	5	4
June 19	7,410	9.6	.06	3.6	1.5	4.3		19	3.5	3.2	.0	.9	39	15	0	52	6.5	7	6	3
July 17	12,100	11	.02	3.8	1.4	4.2	.6	20	3.9	3.5	.0	.4	41	15	0	53	6.6	2	5	2
Aug. 20	13,200	10	.14	3.6	1.5	5.2		21	4.2	3.1	.1	.5	39	15	0	54	6.6	6	3	3
Sept. 18	9,860	11	.13	3.5	1.5	4.2	1.5	20	3.7	4.5	.0	.4	41	15	0	48	6.4	11	6	4

Chemical analyses, in parts per million, of samples collected intermittently

Nov. 30, 1949	6,130	12	0.45	3.2	1.8	5.6		20	4.1	4.8	0.0	0.3	48	15	0	57	6.4	17		
Mar. 2, 1950	7,250	9.1	.08	4.0	1.7	7.1		25	3.9	5.1	.1	.6	47	17	0	65	6.4	9		
May 26	7,730	9.3	.04	3.9	1.6	5.5		22	4.1	3.6	.1	.9	41	16	0	61	6.3	3		
June 28	5,970	11	.08	4.1	1.6	5.2		22	3.9	3.5	.1	.9	44	17	0	58	6.2	3		
Nov. 21	2,880	14	.09	4.0	1.4	6.9		24	4.2	4.0	.2	.6	51	16	0	64	6.6	6		
May 10, 1951	7,120	9.5	.04	4.7	1.7	6.3		24	4.8	4.8	.1	1.1	48	19	0	71	6.4	8		
Dec. 12	5,090	9.8	.12	4.1	1.5	10		25	6.5	6.9	.2	.6	56	16	0	84	6.6	15		
May 15, 1952	8,380	10	.06	3.6	1.3	6.0		19	5.6	3.4	.1	1.1	44	14	0	53	7.1	11		
Apr. 23, 1953	8,380	8.8	.03	3.6	1.6	5.1		19	4.5	4.0	.1	.6	43	16	0	58	6.3	37		
June 11	7,580	--	--	--	--	--		--	--	--	--	--	--	--	--	--	5.9	--		
Apr. 28, 1954	8,540	10	.08	4.0	1.3	6.4		19	6.0	4.5	.1	1.2	50	15	0	64	6.4	23		
Mar. 17, 1955	11,100	9.9	.04	4.1	1.5	7.6	2.0	23	5.9	6.5	.1	1.8	55	16	0	80	7.3	13		
Mar. 7, 1956	8,540	8.1	.10	4.8	1.0	7.1	1.1	20	5.7	5.5	.1	1.5	56	16	0	75	6.6	37		
May 23, 1957	6,140	8.9	.10	3.4	1.8	5.5	1.2	18	1.4	5.7	.4	2.2	50	16	1	64	6.1	30		
May 21, 1958	12,600	9.7	.06	3.6	1.7	2.4	.6	18	.8	2.5	.1	1.0	43	16	1	57	6.3	30		
Apr. 9, 1959	11,600	9.8	.05	3.8	1.6	5.6	1.1	22	3.7	5.5	.1	1.7	54	16	0	63	7.3	40		
May 17, 1960	13,000	10	.04	3.4	1.5	4.4	1.5	21	3.0	4.5	.1	1.1	46	15	0	58	6.8	20		

PEE DEE RIVER BASIN--Continued

PEE DEE RIVER NEAR ROCKINGHAM, N. C.

LOCATION.--At gaging station at bridge on U. S. Highway 74, 2.5 miles upstream from Falling Creek, 3.3 miles downstream from Blewett Falls hydroelectric plant and 6.0 miles west of Rockingham, Richmond County.
DRAINAGE AREA.--6,870 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1946 to September 1948, October 1957 to September 1960.
Water temperatures: October 1946 to September 1948, October 1957 to September 1960.
EXTREMES, 1946-48, 1957-60.--Dissolved solids: Maximum, 69 ppm Jan. 1-31, 1959; minimum, 38 ppm Mar. 1-10, 1948.
Hardness: Maximum, 24 ppm Mar. 21-31, 1948, Nov. 17, 1959; minimum, 11 ppm Feb. 1-10, 1958.
Specific conductance (1957-60): Maximum daily, 152 micromhos, Nov. 17, 1959; minimum daily, 46 micromhos, Feb. 17-19, 1960.
Water temperatures: Maximum, 84°F Aug. 16-19, 1958, Aug. 31, Sept. 1, 1959; minimum, 33°F Feb. 13, 1948.
REMARKS.--Records of suspended matter of composite samples from October 1946 to September 1948, October 1957 to September 1958 and records of specific conductance of daily samples from October 1957 to September 1959 available in district office at Raleigh, N. C.

Chemical analyses, in parts per million, water year October 1959 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Oct. 1-31, 1959....	18,350	12	0.08	4.2	2.1	5.2	2.2	25	3.8	3.5	0.1	1.5	62	19	0	68	7.1	40
Nov. 1-16, 18-30...	7,472	13	.07	4.8	2.2	5.0	2.0	27	2.8	3.5	.2	.6	67	21	0	71	7.0	35
Nov. 17.....	6,280	--	--	--	--	--	--	31	2.2	28	--	--	--	24	0	152	7.2	--
Dec. 1-31.....	8,634	14	.03	5.2	1.8	6.3	2.0	29	2.3	4.2	.1	1.6	54	20	0	78	7.1	15
Jan. 1-31, 1960....	13,290	--	.08	4.8	1.6	6.7	1.8	29	2.8	5.8	.1	1.9	51	18	0	78	7.4	20
Feb. 1-29.....	38,040	10	.12	3.8	1.5	3.2	1.2	17	3.7	2.2	.0	1.3	49	16	2	52	7.1	10
Mar. 1-31.....	19,180	12	.05	3.9	1.7	3.8	.9	20	5.1	3.0	.0	1.0	52	17	1	62	7.4	35
Apr. 1-30.....	20,480	11	.12	4.0	1.5	4.5	1.1	20	6.6	1.5	.1	1.5	45	16	0	56	6.4	30
May 1-31.....	9,032	11	.06	4.1	1.7	5.3	1.2	24	3.9	2.5	.0	1.2	44	17	0	61	6.7	10
June 1-30.....	6,241	11	.01	5.0	1.5	6.0	1.1	27	7.4	3.5	.1	2.3	49	18	0	65	6.5	10
July 1-31.....	4,420	12	.06	4.6	1.8	7.4	1.6	30	4.3	4.5	.1	1.6	57	19	0	74	7.2	15
Aug. 1-31.....	5,769	12	.04	5.0	1.5	8.3	1.8	29	4.0	5.0	.1	1.1	54	18	0	76	7.1	15
Sept. 1-30.....	5,220	11	.03	4.4	2.1	7.5	1.8	27	1.0	10	.1	.4	52	20	0	69	6.9	10
Time-weighted average.....	12,750	12	0.06	4.5	1.7	5.8	1.6	25	4.0	4.2	0.1	1.3	53	18	0	68	--	20

PEE DEE RIVER BASIN--Continued

PEE DEE RIVER NEAR ROCKINGHAM, N. C.--Continued

Temperature (°F) of water, water year October 1959 to September 1960
(Once-daily measurement at approximately 7 a.m.)

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	63	52	46	42	41	52	63	75	77	80	82
2	74	62	52	45	43	41	53	63	74	77	80	82
3	74	62	51	45	43	39	54	64	73	77	80	82
4	74	61	51	45	43	39	55	64	73	77	80	82
5	74	61	50	45	44	38	55	65	73	77	79	82
6	74	61	50	45	44	38	55	65	73	78	79	81
7	74	62	50	44	44	38	56	65	73	78	79	81
8	74	61	50	44	45	38	56	65	73	79	79	81
9	74	61	49	44	45	38	56	64	73	79	79	81
10	73	60	49	44	45	38	56	63	73	79	79	80
11	73	58	48	44	46	38	56	62	74	80	79	80
12	73	57	48	44	46	39	57	65	74	80	78	80
13	73	57	48	45	45	39	57	65	74	80	77	80
14	72	57	48	45	44	41	57	66	74	60	76	80
15	72	57	48	46	43	41	58	66	74	80	76	80
16	71	57	--	46	43	41	58	66	74	79	77	80
17	68	57	48	46	43	41	59	68	75	79	79	79
18	68	57	48	45	43	41	59	69	75	79	79	79
19	68	56	48	45	43	42	60	69	76	80	79	78
20	68	56	47	45	43	42	60	69	76	80	80	78
21	67	56	47	45	44	42	60	69	76	79	80	78
22	66	56	47	44	44	42	60	70	76	79	80	78
23	66	55	47	44	43	43	60	71	77	79	81	78
24	65	55	46	44	43	44	61	71	77	79	81	78
25	65	54	46	44	42	44	61	71	77	79	81	77
26	64	54	46	43	43	45	62	72	77	79	81	77
27	64	54	46	43	42	45	62	72	78	79	81	77
28	64	54	46	43	42	46	63	72	78	79	82	76
29	63	53	46	42	42	47	63	72	78	80	82	76
30	63	52	46	42	--	49	64	73	78	80	82	76
31	63	--	46	41	--	51	--	74	--	80	82	--
Average	70	58	48	44	44	42	58	68	75	79	80	79

PEE DEE RIVER BASIN--Continued

PEE DEE RIVER NEAR SOCIETY HILL, S. C.

LOCATION.--At bridge on U. S. Highway 15 near Society Hill, Darlington County.
DRAINAGE AREA.--7,980 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1953 to September 1954.

Chemical analyses, in parts per million, water year October 1953 to September 1954

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 29, 1953	1,820	8.2	0.02	5.0	1.6	9.2	2.0	29	4.7	5.9	0.1	0.4	54	19	0	97	6.7	10	4	4
Nov. 30	706	7.0	.09	3.5	1.3	11		28	5.1	6.2	.0	.4	49	14	0	95	6.7	19	4	3
Dec. 28	7,800	6.7	.11	3.7	1.8	6.1		21	4.8	5.2	.0	.4	51	17	0	76	6.8	29	5	5
Feb. 1, 1954	12,100	11	.05	3.4	1.1	5.0	1.8	16	7.9	4.5	.0	1.0	43	13	0	60	6.4	17	4	4
Feb. 26	7,480	6.4	.08	3.4	1.0	6.1		15	5.2	5.0	.1	1.0	42	13	0	74	6.4	16	7	4
Mar. 30	13,500	8.0	.09	3.1	1.2	7.0		17	5.1	5.8	.1	.3	49	13	0	66	6.6	17	8	--
Apr. 29	7,560	9.0	.00	3.8	1.5	6.5	1.4	20	4.9	4.5	.1	.5	46	16	0	62	7.0	17	5	4
May 27	5,880	10	.04	4.7	1.0	6.3	1.5	25	6.1	4.5	.0	1.6	53	16	0	75	6.5	17	3	3
June 28	1,260	11	.07	5.1	1.5	5.0	1.6	25	5.1	3.8	.1	1.7	53	19	0	69	7.3	11	3	3
July 29	1,870	9.6	.01	4.6	1.6	7.0	1.8	24	5.5	5.2	.1	1.5	55	18	0	77	6.2	12	--	3
Sept. 1	2,440	8.1	.00	4.6	2.3	10	1.8	35	5.4	7.5	.1	1.2	60	21	0	98	6.5	8	--	2
Sept. 30	1,580	6.2	.05	4.2	1.8	15	2.0	45	6.7	9.0	.1	1.1	73	18	0	119	7.4	8	--	3

Chemical analyses, in parts per million, of samples collected intermittently

Mar. 2, 1950	6,870	11	0.08	4.2	1.8	6.2		25	3.7	4.6	0.0	0.6	47	18	0	65	6.7	9		
June 28	5,490	11	.05	4.0	1.5	6.1		24	4.1	3.1	.1	1.1	42	16	0	59	6.5	3		
Nov. 21	7,720	10	.04	4.0	2.2	10		26	4.5	10	.2	.6	56	19	0	64	6.4	3		
May 11, 1951	6,410	11	.06	4.0	1.5	6.5		23	4.5	3.9	.2	.9	46	16	0	63	7.7	6		
Dec. 12	6,180	9.5	.02	4.4	1.7	8.5		26	6.2	5.5	.1	1.0	53	18	0	78	6.5	17		
May 15, 1952	6,850	11	.09	3.7	1.5	4.5		17	4.9	3.6	.1	1.0	42	15	1	56	6.4	10		
Apr. 24, 1953	5,420	9.0	.03	3.4	.8	7.8		16	8.7	3.8	.0	1.4	45	12	0	84	6.5	27		
June 12	6,040	8.0	.02	3.6	1.1	5.9		19	4.0	4.2	.0	1.0	54	14	0	59	6.5	20		
May 26, 1955	4,560	10	.07	4.4	1.5	7.1	1.8	24	5.9	5.3	.2	2.0	54	17	0	76	7.5	12		
Nov. 3	3,430	7.7	.06	4.2	1.6	12	1.8	38	4.9	5.0	.1	1.2	70	17	0	95	6.8	30		
June 12, 1956	1,970	6.9	.01	3.8	1.6	9.9	1.5	31	5.8	5.4	.1	1.6	61	16	0	88	6.6	12		
Sept. 19	1,210	4.3	.13	4.4	1.7	12	2.0	35	5.2	6.5	.1	1.4	60	18	0	96	6.6	10		
June 20, 1957	7,410	8.0	.08	4.0	1.7	5.4	1.2	24	2.2	5.3	.3	1.5	45	17	0	69	6.4	15		
May 21, 1958	10,400	10	.05	3.4	2.0	3.9	.8	20	2.6	3.5	.2	1.1	47	17	1	66	6.5	20		
June 17	5,780	11	.02	4.1	1.5	4.8	1.8	24	2.7	4.0	.1	1.4	46	16	0	59	6.8	5		
May 19, 1959	1,950	10	.06	3.8	1.8	8.0	1.0	28	1.9	5.0	.1	1.1	51	17	0	77	7.2	20		
May 17, 1960	6,610	11	.03	3.5	1.8	5.4	1.4	25	2.6	4.0	.1	1.3	44	16	0	64	7.5	10		

SANTEE RIVER BASIN

BROAD RIVER AT RICHTEX, S. C.

LOCATION.--At gaging station on right bank, 0.8 mile west of Richtex, Fairfield County, 1.2 miles upstream from Little River, and 11 miles downstream from Parr Shoals Dam.
DRAINAGE AREA.--4,850 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1958 to September 1960.

Chemical analyses, in parts per million, October 1958 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 22, 1958	1,970	15	0.01	5.6	0.9	10	1.6	40	2.3	5.5	0.0	0.3	62	18	0	91	6.8	10		
Nov. 18	2,400	15	.18	5.2	2.2	8.9	1.8	36	2.7	5.2	.0	.8	60	22	0	85	6.7	15		
Nov. 25	2,140	17	.14	4.0	1.9	11	1.6	38	4.3	5.0	.3	1.5	82	18	0	84	6.7	0		
Dec. 18	2,320	14	.01	3.6	1.6	11	1.3	35	5.0	4.2	.0	.8	63	16	0	80	6.3	9		
Jan. 13, 1959	3,280	13	.01	3.9	1.3	8.0	1.4	28	3.5	3.3	.0	1.2	58	15	0	67	6.7	9		
Feb. 12	4,360	16	.03	3.8	1.9	7.4	1.3	31	2.3	5.5	.1	.6	56	17	0	73	7.1	5		
Mar. 17	9,700	13	.01	3.8	1.7	5.2	1.2	29	2.5	3.1	.1	1.3	48	17	0	58	7.2	20		
Apr. 23	17,200	10	.01	4.3	1.3	3.2	1.4	22	2.9	2.4	.2	1.0	38	16	0	53	6.3	7		
May 20	3,070	15	.01	3.8	1.5	7.5	.8	29	2.1	3.1	.2	1.1	58	16	0	74	6.6	4		
June 9	6,380	13	.00	3.7	1.4	4.6	1.5	24	3.7	2.5	.1	1.2	49	15	0	62	6.6	20		
July 14	6,960	12	.01	3.7	1.8	5.3	1.8	26	5.3	2.7	.1	1.4	48	17	0	66	6.9	20		
Aug. 13	2,320	15	.01	4.0	1.7	7.1	1.6	30	3.9	3.5	.0	.7	53	17	0	73	6.8	10		
Sept. 10	14,500	11	.03	3.4	1.3	3.7	2.2	18	6.1	2.5	.1	1.0	a40	14	0	47	6.4	30		
Oct. 19	11,500	14	.08	3.5	2.2	4.3	2.0	25	5.1	4.0	.1	.4	a48	18	0	59	6.7	20		
Nov. 10	5,280	16	.03	4.5	1.6	6.6	1.8	32	1.6	3.9	.1	.3	52	18	0	71	6.6	15		
Dec. 19	17,800	11	.01	3.0	1.9	4.0	2.0	22	2.2	3.5	.2	1.2	47	15	0	53	6.6	15		
Jan. 29, 1960	5,990	16	.01	3.5	2.3	6.1	1.2	29	1.2	4.5	.1	.6	a50	18	0	63	6.8	10		
Feb. 24	11,300	12	.00	3.1	1.4	3.6	1.3	19	2.3	2.8	.0	.9	37	14	0	48	6.9	10		
Mar. 21	13,800	12	.01	3.7	1.5	3.8	1.3	19	2.4	3.2	.0	1.2	a38	15	0	49	6.8	5		
Apr. 11	10,200	13	.05	3.4	1.3	4.4	1.5	23	1.4	3.5	.2	.7	40	14	0	55	6.8	5		
May 18	4,900	18	.01	4.1	1.5	5.8	1.3	29	3.3	2.0	.0	.0	a48	16	0	63	7.2	5		
June 15	3,240	15	.01	4.0	1.3	7.1	1.7	34	1.1	4.0	.1	1.2	53	16	0	67	6.9	5		
July 14	4,260	17	.04	3.8	1.8	5.2	1.5	27	2.3	2.5	.1	.4	a48	16	0	62	6.6	10		
Aug. 22	3,680	16	.01	3.8	1.5	7.1	1.4	30	5.4	3.5	.2	.8	a55	16	0	64	6.7	5		
Sept. 19	3,640	13	.04	4.2	1.5	7.2	1.8	30	1.4	4.0	.2	.3	59	16	0	67	6.8	5		

Chemical analyses, in parts per million, of samples collected intermittently

Mar. 14, 1956	3,420	14	0.00	4.6	1.8	7.8	1.5	34	4.7	4.0	0.1	0.9	65	19	0	81	6.7	10		
Mar. 20, 1958	8,020	14	.07	3.6	1.7	5.7	1.4	25	3.7	3.5	.0	.1	46	16	0	60	6.5	10		

a Calculated from determined constituents.

BROAD RIVER NEAR BOILING SPRINGS, N. C.

LOCATION.--On right bank 0.5 mile upstream from Sandy Run Creek, 3.0 miles downstream from Second Broad River, and 3.5 miles southwest of Boiling Springs, Cleveland County.
DRAINAGE AREA.--864 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1945 to September 1946, October 1956 to September 1960.
Water temperatures: October 1945 to September 1946, October 1956 to September 1960.
EXTREMES, 1945-46, 1956-60.--Dissolved solids: Maximum, 57 ppm June 1-10, 1957; minimum, 26 ppm Apr. 21-30, 1958.
Hardness: Maximum, 18 ppm Aug. 11-20, 1956; minimum, 8 ppm Jan. 1-10, Feb. 1-10, 1946, Feb. 11-19, 1957, Apr. 1-10, 1958, Feb. 1-29, 1960.
Specific conductance (1956-60): Maximum daily, 74 micromhos Aug. 13, 1957; minimum daily, 22 micromhos Mar. 30, 1960.
Water temperatures: Maximum, 85°F Aug. 7, 1958; minimum, freezing point Feb. 3, 4, 1946, Feb. 18, 19, 1958, Mar. 3, 1960.
REMARKS.--Records of suspended matter of composite samples from October 1945 to September 1946, October 1956 to September 1958 and records of specific conductance of daily samples from October 1956 to September 1960 available in district office at Raleigh, N. C.

Chemical analyses, in parts per million, water year October 1959 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color
														Calcium, magnesium	Noncarbonate			
Oct. 1-31, 1959....	3,236	11	0.03	2.6	0.5	2.0	1.2	14	1.5	1.3	0.1	0.7	33	9	0	32	7.4	20
Nov. 1-30.....	1,671	14	.02	3.0	.6	2.6	1.1	15	.5	2.0	.0	1.3	33	10	0	36	6.6	10
Dec. 1-31.....	1,664	14	.07	2.8	.7	2.6	1.0	15	.6	2.0	.1	1.1	33	10	0	38	7.2	25
Jan. 1-31, 1960....	1,965	13	.07	2.8	.5	2.5	1.0	15	.3	1.5	.0	1.1	30	9	0	36	7.1	15
Feb. 1-29.....	4,304	12	.01	2.3	.4	1.7	.8	12	2.9	1.0	.0	.8	29	8	0	28	7.2	5
Mar. 1-31.....	3,234	13	.00	2.4	1.1	2.0	.7	12	.9	.5	.1	3.7	33	10	0	32	7.2	5
Apr. 1-30.....	3,357	13	.00	2.4	.9	1.6	.7	13	2.0	1.0	.1	3.2	32	10	0	31	7.2	5
May 1-31.....	1,881	15	.01	2.4	1.0	2.2	.7	16	1.1	1.5	.1	3.0	a35	10	0	35	6.7	5
June 1-30.....	1,468	14	.01	2.7	1.0	3.2	1.1	18	2.0	2.0	.0	1.0	36	11	0	37	6.6	8
July 1-31.....	1,206	16	.04	3.3	1.1	3.2	.5	19	1.2	1.5	.1	.5	a37	12	0	40	6.3	20
Aug. 1-31.....	1,294	15	.01	3.2	.4	4.3	.9	20	2.0	2.0	.1	1.4	43	10	0	44	7.2	10
Sept. 1-30.....	1,357	14	.04	3.4	1.0	3.7	1.0	17	2.4	1.3	.0	.9	39	12	0	40	7.1	20
Time-weighted average.....	2,214	14	0.03	2.8	0.8	2.8	0.9	18	1.4	1.5	0.1	1.6	34	10	0	36	--	12

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

BROAD RIVER NEAR BOILING SPRINGS, N. C.--Continued

Temperature (°F) of water, water year October 1959 to September 1960
(Once-daily measurement at approximately 7 a.m.)

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	64	45	--	45	43	54	62	75	80	78	78
2	68	64	45	43	46	42	55	64	76	79	80	77
3	68	63	44	43	46	32	55	64	70	80	81	76
4	69	63	45	43	45	38	54	65	70	79	81	75
5	69	62	45	43	43	37	54	64	73	80	82	76
6	69	61	44	44	44	36	55	63	73	79	82	77
7	69	61	43	44	44	38	55	63	73	79	83	76
8	70	60	44	44	45	38	54	61	74	78	82	78
9	69	60	45	45	46	37	54	59	75	76	80	77
10	69	58	46	46	47	37	55	60	75	78	80	76
11	68	56	47	46	48	38	54	60	74	77	79	75
12	67	55	48	47	46	38	54	60	75	77	78	73
13	67	54	48	47	45	39	59	58	76	77	76	71
14	68	53	47	48	44	40	56	57	74	78	76	70
15	67	54	45	48	42	41	56	57	73	76	76	68
16	67	54	45	48	44	41	57	60	75	75	78	69
17	67	54	46	48	45	40	57	--	76	74	77	70
18	66	53	47	47	44	42	56	64	78	76	76	72
19	65	53	48	46	43	41	56	65	78	77	78	74
20	66	52	47	46	42	42	57	66	76	78	78	73
21	65	51	46	45	43	42	58	67	76	79	79	73
22	65	50	45	45	43	43	60	69	75	78	80	72
23	65	49	45	43	43	44	62	70	74	79	79	70
24	65	48	46	40	43	45	63	69	75	80	78	69
25	64	47	46	38	43	46	65	69	76	81	77	68
26	65	46	46	37	43	47	65	70	76	80	80	68
27	64	46	46	38	43	50	65	70	77	79	79	67
28	65	45	45	40	43	51	61	71	78	78	78	67
29	65	45	46	41	44	52	60	73	78	77	78	66
30	65	44	46	42	--	53	61	74	79	77	79	65
31	64	--	45	43	--	52	--	74	--	76	78	--
Average	67	54	46	44	44	42	58	65	75	78	79	72

SANTEE RIVER BASIN--Continued

BROAD RIVER NEAR CARLISLE, S. C.

LOCATION.--At gaging station at bridge on State Highway 72, 2 miles upstream from Sandy River, 2 miles downstream from Seaboard Air Line Railroad bridge, 2-1/2 miles east of Carlisle, Union County, and 5 miles downstream from Neals Shoals Dam.
DRAINAGE AREA.--2,790 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1947 to September 1948.

Chemical analyses, in parts per million, water year October 1947 to September 1948

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 15, 1947	2,070	9.9	0.17	2.8	0.9	4.9		18	2.5	2.4	0.1	0.5	36	11	0		7.0	7	4	2
Nov. 17	7,980	9.9	.05	3.5	1.2	4.3		19	4.2	2.0	.1	.1	37	14	0		6.9	10	4	3
Dec. 15	3,650	14	.08	4.5	1.8	4.3		25	3.2	2.5	.1	.3	44	19	0		6.9	8	3	2
Jan. 19, 1948	3,640	14	.06	3.8	1.7	5.0		24	3.6	2.5	.1	.1	42	16	0		7.1	40	1	1
Feb. 17	8,200	10	.02	2.8	1.0	3.7		14	3.5	2.5	.0	.6	32	11	0		6.9	16	3	2
Mar. 12	5,940	12	.01	3.6	1.3	5.1		18	3.3	4.8	.1	.4	35	14	0		7.1	5	1	0
Apr. 19	4,240	13	.02	3.3	1.6	4.3		21	2.4	2.8	.1	.3	39	15	0		7.1	25	1	1
May 19	5,140	12	.09	3.9	1.3	4.6		21	3.3	2.5	.1	.7	40	15	0		7.1	5	1	1
June 15	3,340	15	.02	3.8	1.4	3.8		23	2.2	1.1	.1	.6	46	15	0	76	6.9	18	6	4
July 16	4,240	11	.02	2.9	1.0	4.3		18	2.1	2.1	.1	.8	37	11	0		6.4	3	4	3
Aug. 16	2,100	13	.02	3.3	1.5	6.2		22	3.0	3.8	.1	1.5	44	14	0		6.7	3	2	1
Sept. 14	2,300	12	.02	2.8	1.3	5.2		21	2.2	2.4	.1	.6	42	12	0		6.9	6	2	1

Chemical analyses, in parts per million, of samples collected intermittently

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Feb. 26, 1946	5,140	11	0.02	2.7	1.3	3.8		17	2.8	2.1	0.0	0.6	36	12	0	41	6.9	4		
Nov. 28, 1949	3,840	15	.06	3.9	2.0	4.4		23	3.5	3.4	.0	.4	44	18	0	55	6.4	7		
Feb. 15, 1950	3,740	17	.15	4.6	1.6	5.2		26	3.9	2.6	.0	.4	51	18	0	55	7.1	6		
Mar. 31	4,760	13	.03	3.4	1.5	5.1		22	2.8	2.9	.1	.6	40	15	0	51	6.5	7		
May 4	4,980	13	.09	4.9	1.6	4.9		26	3.1	2.9	.1	.8	44	19	0	59	6.3	3		
Nov. 15	1,540	16	.19	5.1	2.4	4.2		28	3.7	2.9	.2	.3	48	23	0	60	7.0	7		
May 3, 1951	3,840	12	.01	3.6	1.4	4.3		22	2.5	2.2	.0	.5	38	15	0	52	6.6	4		
Jan. 4, 1952	3,190	14	.06	3.5	1.4	4.9		20	3.3	3.1	.1	.8	43	14	0	52	6.8	14		
May 5	3,940	15	.07	3.4	1.3	6.3		22	2.8	3.9	.1	1.2	45	14	0	70	6.8	15		
June 11, 1953	5,530	9.8	.03	3.1	.7	3.4		12	3.4	2.2	.0	1.9	38	11	1	45	6.2	7		
Nov. 16	956	14	.10	4.2	1.0	7.6		28	2.8	3.5	.1	.2	48	15	0	71	6.7	12		
Mar. 19, 1954	3,640	13	.02	3.6	1.1	4.5		18	3.3	3.0	.1	.6	40	14	0	66	6.6	8		
June 25	1,770	14	.00	3.6	.5	7.5		22	3.1	3.0	.1	2.0	45	11	0	59	7.2	2		
Apr. 12, 1955	3,740	10	.02	4.2	1.3	5.2	1.6	24	5.2	3.8	.1	1.0	48	16	0	64	7.0	9		
Apr. 6, 1956	2,570	14	.01	4.8	1.0	4.8	1.1	25	2.9	3.8	.1	.5	48	16	0	62	6.7	3		
Apr. 18, 1957	3,340	13	.02	3.7	.7	3.2	1.1	20	.3	2.2	.0	1.0	39	12	0	53	6.7	5		
May 21, 1958	5,120	14	.00	3.8	1.7	1.7	.8	20	2.6	2.5	.2	.8	37	16	0	52	6.4	10		
May 18, 1960	3,940	16	.04	3.9	1.5	2.9	1.2	23	3.8	2.0	.0	.0	51	16	0	50	6.6	5		

BROAD RIVER NEAR GAFFNEY, S. C.

LOCATION.--At gaging station at bridge on U. S. Highway 29A, 0.3 mile upstream from Cherokee Creek, 4.4 miles downstream from Gaston Shoals Dam, and 4.5 miles east of Gaffney, Cherokee County.
DRAINAGE AREA.--1,490 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1949 to September 1950.

Chemical analyses, in parts per million, water year October 1949 to September 1950

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 15, 1949	3,120	12	0.14	2.6	1.1	3.8	0.8	17	3.3	2.4	0.1	0.5	36	11	0	42	6.5	8	3	2
Nov. 15	2,600	12	.04	3.2	1.2	4.0		19	2.3	2.5	.0	.2	35	13	0	51	6.5	7	2	1
Dec. 15	2,500	15	.01	2.8	1.1	4.0		16	2.2	3.0	.1	.4	39	12	0	40	6.3	8	2	1
Jan. 14, 1950	2,300	14	.07	2.7	1.1	4.5	1.1	16	2.8	3.0	.2	.5	37	11	0	39	7.0	7	2	2
Feb. 15	3,650	14	.02	2.4	1.0	3.3		14	2.0	2.2	.1	.4	33	10	0	36	7.0	14	2	2
Mar. 15	5,240	10	.03	2.4	.9	3.1		14	2.6	1.6	.0	.1	32	10	0	31	6.2	7	4	--
Apr. 15	2,040	12	.02	2.6	1.0	3.9	.8	18	1.9	2.6	.0	.4	34	11	0	44	6.9	8	2	2
May 15	3,960	8.6	.02	3.0	1.2	3.9		12	5.6	2.6	.1	1.6	36	12	3	48	6.0	3	17	2
June 16	2,880	11	.04	3.1	1.3	4.3		16	4.3	2.1	.1	1.9	41	13	0	48	5.9	2	9	2
July 15	3,810	13	.04	2.4	.9	4.2	1.4	14	3.0	3.8	.1	.7	38	10	0	48	6.4	3	11	2
Aug. 15	1,720	16	.06	3.0	1.3	6.0		22	2.3	3.4	.1	.4	43	13	0	53	6.8	4	3	1
Sept. 15	2,600	13	.02	2.5	.9	4.5	1.5	16	3.0	2.6	.1	.5	37	10	0	44	6.6	4	4	1

Chemical analyses, in parts per million, of samples collected intermittently

Feb. 25, 1946	3,200	12	0.14	2.3	1.1	3.4		15	2.3	1.6	0.1	0.6	33	10	0	33	6.8	25		
Feb. 15, 1949	2,910	11	.01	2.4	1.2	3.3		16	2.0	1.9	.0	.2	32	11	0	35	6.6	7		
Nov. 16, 1950	1,580	14	.18	3.2	1.3	4.1		19	2.5	2.4	.2	.3	38	13	0	43	6.8	9		
May 8, 1951	1,980	13	.02	3.6	1.3	4.5		20	2.7	2.5	.1	1.3	39	14	0	46	6.5	2		
Dec. 17	1,190	13	.06	2.7	1.0	6.6		20	2.1	3.8	.2	.9	40	11	0	51	6.9	8		
June 23, 1952	1,360	15	.10	2.9	1.3	4.7		19	2.5	2.5	.1	1.2	41	13	0	48	7.1	21		
Jan. 15, 1953	2,140	13	.12	3.0	1.0	4.5		16	3.3	2.9	.0	.9	38	12	0	44	6.6	4		
Apr. 16	1,920	7.9	.02	2.8	1.1	6.1		17	2.1	5.5	.0	1.0	44	11	0	42	6.2	8		
June 23	1,380	14	.04	3.5	.9	5.8		18	3.3	4.0	.0	1.6	46	13	0	58	6.9	8		
Nov. 12	900	12	.05	2.6	1.1	6.3		21	2.8	2.8	.2	.2	40	11	0	64	7.0	8		
Mar. 19, 1954	2,870	11	.04	2.6	.5	5.0		14	3.5	2.5	.0	.9	34	9	0	59	6.5	26		
June 24	1,020	15	.00	2.6	.5	6.1		17	2.6	2.8	.1	1.3	38	9	0	44	6.6	9		
Apr. 15, 1955	8,600	7.6	.02	2.4	.8	2.2	1.4	10	4.0	2.5	.0	1.5	31	9	1	37	6.6	14		
Mar. 6, 1956	1,600	12	.00	3.0	1.1	3.2	1.1	18	3.1	2.0	.1	1.1	36	12	0	47	6.6	6		
May 23, 1957	1,470	13	.01	2.4	1.5	3.8	1.6	18	1.6	4.4	.0	1.5	45	12	0	42	6.4	5		
Apr. 21, 1958	4,000	12	.07	2.4	.7	2.5	1.1	13	1.6	3.0	.0	.6	32	9	0	32	6.6	10		
Feb. 18, 1959	2,770	13	.02	2.6	1.1	3.3	.9	17	.8	2.7	.1	.7	36	11	0	41	6.8	5		
Apr. 21, 1960	3,840	12	.03	2.2	1.0	3.0	1.0	15	1.8	2.5	.1	.3	32	10	0	37	6.6	5		

SANTEE RIVER BASIN--Continued

BUFFALO CREEK NEAR BLACKSBURG, S. C.

LOCATION.--At bridge on State Highway 5, 1-1/4 miles northeast of Blacksburg, Cherokee County, and 1-1/2 miles above mouth.
DRAINAGE AREA.--176 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1952 to September 1953.

Chemical analyses, in parts per million, water year October 1952 to September 1953

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 15, 1952	91.1	16	0.13	4.3	1.5	6.2	1.2	24	2.8	6.8	0.1	0.6	53	17	0	69	6.5	6	2	2
Nov. 17	94.2	16	.06	3.9	1.4	8.6		26	3.0	6.5	.1	.6	53	16	0	70	7.0	5	2	2
Dec. 15	97.8	16	.08	4.2	1.5	7.0		23	3.3	6.2	.1	.6	52	17	0	68	6.6	16	3	2
Jan. 15, 1953	186	14	.27	4.0	1.4	5.1	2.7	20	4.0	5.5	.1	1.1	50	16	0	63	6.6	4	5	3
Feb. 17	312	13	.07	4.0	1.6	5.5		18	5.1	5.1	.1	1.2	46	17	2	59	6.8	5	8	2
Mar. 13	255	13	.07	3.8	1.4	6.0		19	4.5	4.9	.1	1.1	44	15	0	61	6.4	7	3	2
Apr. 16	171	14	.03	3.5	1.5	4.9	1.0	21	3.4	5.6	.1	.4	44	15	0	61	6.6	4	2	2
May 15	125	15	.06	3.2	1.7	8.0		24	2.7	6.0	.1	1.6	54	15	0	78	6.8	18	3	2
June 12	206	12	.04	3.2	.9	6.8		17	5.8	4.2	.1	1.6	42	12	0	70	6.2	18	--	--
July 16	70.2	15	.07	4.5	1.5	7.5		25	4.3	5.2	.1	1.4	52	17	0	75	6.5	8	--	--
Aug. 14	43.3	15	.02	3.6	1.1	10		25	2.4	8.2	.2	.5	53	14	0	87	6.9	6	5	3
Sept. 16	50.8	12	.03	3.6	1.4	7.9	2.2	24	3.0	7.4	.1	.5	50	15	0	77	6.9	6	3	3

Chemical analyses, in parts per million, of samples collected intermittently

Feb. 15, 1949	190	13	0.02	3.0	1.4	4.9		20	2.7	3.0	0.1	0.3	40	13	0	47	6.4	4		
May 11, 1950	126	16	.02	3.6	1.2	7.1		23	2.5	5.1	.1	.6	47	14	0	63	6.6	3		
Nov. 16	96.9	19	.11	3.8	1.5	7.8		23	3.3	6.9	.1	.4	54	16	0	70	7.1	7		
May 8, 1951	126	16	.03	4.0	1.7	5.3		24	2.6	3.6	.1	.9	48	17	0	59	6.8	3		
Oct. 15	50.6	14	.02	4.0	1.5	7.8		26	2.6	6.4	.0	.2	50	16	0	70	6.6	6		
Jan. 8, 1952	131	15	.02	4.0	1.6	8.0		22	4.1	7.5	.1	1.0	53	17	0	69	7.0	17		
Apr. 22	164	14	.11	3.0	1.2	5.9		21	2.6	3.4	.0	.8	42	12	0	55	6.4	3		
June 23	96.1	15	.04	3.6	1.3	6.8		21	3.7	4.9	.1	1.1	48	14	0	66	6.4	22		
Oct. 14, 1953	64.1	15	.12	3.7	1.1	9.3		25	3.0	6.8	.2	.4	57	14	0	72	6.8	12		
Mar. 26, 1954	435	11	.02	3.6	.6	6.8		16	4.3	5.5	.1	.8	45	11	0	63	6.6	9		
June 1, 1955	87.8	15	.01	4.6	1.6	6.8	2.1	25	5.4	8.0	.1	.6	57	18	0	79	7.4	3		
Nov. 3	59.5	16	.05	4.4	1.2	7.6	2.0	28	1.6	8.0	.1	.4	58	16	0	78	6.9	7		
May 15, 1956	122	15	.01	4.2	1.2	4.4	1.6	24	.8	4.3	.1	.9	47	16	0	62	6.8	10		
Dec. 6	79.3	17	.13	4.0	1.2	8.8	1.5	25	3.6	9.0	.0	1.2	60	15	0	81	6.6	10		
May 22, 1957	116	17	.00	3.6	1.2	7.1	2.1	22	3.1	8.5	.0	1.8	57	14	0	76	6.6	5		
May 22, 1958	216	16	.00	3.6	1.7	3.1	1.4	20	3.4	3.5	.2	1.1	44	16	0	63	6.5	10		
May 11, 1959	179	16	.04	3.7	1.5	4.7	1.6	24	2.5	4.7	.1	.7	43	15	0	58	6.8	2		
May 24, 1960	176	18	.05	3.5	1.5	4.0	1.7	23	3.6	3.5	.0	.2	54	15	0	53	7.0	5		

CATAWBA RIVER NEAR ROCK HILL, S. C.

LOCATION.--On right bank at downstream side of bridge on U. S. Highway 21, 3-1/2 miles downstream from Catawba Dam, 5 miles northeast of Rock Hill, York County, and 7-1/2 miles upstream from Sugar Creek.
DRAINAGE AREA.--3,050 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1957 to September 1960.

Chemical analyses, in parts per million, October 1957 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Oct. 17, 1957	3,800	11	0.04	4.6	0.9	5.7	1.3	19	7.6	3.4	0.1	0.9	59	15	0	62	6.4	20
Nov. 14	2,990	10	.03	4.4	1.1	6.2	1.3	20	6.9	4.3	.1	1.0	58	16	0	64	7.0	20
Dec. 16	4,880	9.5	.00	3.2	1.5	3.0	1.3	16	4.8	4.0	.2	.5	37	14	1	56	6.4	20
Jan. 16, 1958	8,030	11	.00	3.2	1.7	3.1	.6	17	2.8	3.2	.0	.4	36	15	1	50	6.2	20
Feb. 17	5,630	11	.00	3.2	1.5	3.7	1.0	17	2.6	3.5	.0	1.0	42	14	0	54	6.3	55
Mar. 13	5,910	11	.00	3.6	1.5	3.3	1.0	16	5.0	3.5	.0	1.1	a38	15	2	52	6.3	20
Apr. 16	6,030	9.1	.11	4.0	1.0	3.5	1.4	16	3.9	3.8	.1	1.0	39	14	1	49	6.3	30
May 15	9,890	9.6	.00	3.6	.9	2.1	1.8	18	2.2	2.7	.1	.4	32	13	0	41	6.6	10
June 16	5,420	11	.00	4.1	1.1	3.5	1.5	19	4.9	2.8	.1	.6	39	15	0	50	6.6	5
July 16	5,140	12	.02	4.3	1.4	4.8	1.6	22	4.7	3.4	.1	.6	48	16	0	58	6.6	5
Aug. 15	4,390	12	.00	4.2	1.2	5.2	1.8	23	3.7	3.4	.1	.3	45	15	0	59	6.4	5
Sept. 15	2,170	13	.01	4.2	1.6	5.3	1.9	26	5.0	4.0	.1	.2	52	17	0	65	6.8	5
Oct. 15	3,060	12	.00	5.0	2.2	6.1	1.2	23	7.4	5.4	.0	.4	54	22	3	71	6.5	8
Dec. 17	2,040	10	.01	4.2	1.0	7.9	1.3	21	7.0	4.4	.0	.9	52	15	0	68	6.3	9
Jan. 15, 1959	3,880	8.3	.03	3.7	.9	4.6	1.2	14	5.5	3.3	.0	1.7	46	13	2	53	6.1	21
Feb. 16	5,590	12	.04	4.0	1.5	6.2	1.3	21	6.2	4.2	.1	1.5	52	16	0	67	7.3	20
Mar. 16	4,910	12	.03	4.3	1.3	6.1	1.3	20	6.2	4.0	.1	1.6	50	16	0	67	7.2	5
Apr. 15	9,900	12	.00	3.8	1.8	5.8	1.2	22	6.1	4.0	.1	1.7	50	17	0	66	7.1	10
May 4	5,030	9.8	.00	4.1	1.0	4.9	1.3	18	5.7	5.0	.1	.9	46	14	0	58	6.5	6
May 14	1,980	10	.00	3.8	1.2	4.9	1.5	19	5.9	4.0	.1	.8	a41	14	0	59	6.8	9
June 16	2,860	12	.01	3.4	1.4	5.6	.9	22	4.1	3.1	.1	.8	46	14	0	62	6.7	8
July 15	4,480	11	.00	3.7	1.5	5.9	1.3	22	5.7	4.7	.0	.8	49	15	0	69	6.6	10
Aug. 16	580	11	.01	3.8	2.2	5.6	1.6	24	7.0	4.0	.1	1.3	52	18	0	66	6.8	20
Sept. 14	7,190	11	.01	3.8	1.7	6.0	1.6	22	5.8	3.4	.0	.8	50	17	0	68	6.8	20
Oct. 15	11,300	9.2	.03	3.4	.8	2.1	2.9	14	2.7	3.0	.1	1.2	37	12	0	43	6.6	20
Nov. 17	7,780	12	.06	4.2	.9	4.5	1.9	19	2.6	3.6	.1	.7	48	14	0	54	6.6	12
Dec. 16	7,080	12	.01	3.4	1.7	5.1	1.6	20	4.2	4.0	.0	.8	46	16	0	61	6.5	5
Jan. 15, 1960	5,380	12	.01	3.6	1.7	5.2	1.6	21	4.6	4.5	.1	.9	48	16	0	61	7.0	5
Feb. 15	12,300	9.5	.01	2.7	1.2	2.7	1.8	14	3.8	2.5	.1	1.0	36	12	0	40	6.5	10
Mar. 18	5,430	11	.00	2.7	1.8	3.2	1.3	17	5.0	2.8	.2	1.1	38	14	0	48	6.9	5

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

CATAWBA RIVER NEAR ROCK HILL, S. C.--Continued

Chemical analyses, in parts per million, October 1957 to September 1960--Continued

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color
														Calcium, magnesium	Noncarbonate			
Apr. 14, 1960.....	10,800	10	0.06	3.0	1.4	2.4	1.2	14	5.0	2.0	0.0	1.2	a33	14	2	42	7.0	8
May 16.....	6,560	10	.13	3.1	1.8	4.0	1.4	18	4.3	4.5	.0	1.3	45	15	0	56	6.8	5
June 15.....	3,430	14	.04	4.2	1.5	4.5	1.2	20	6.2	3.0	.0	.6	a45	16	0	61	6.6	5
July 14.....	4,270	13	.01	3.9	1.6	5.6	1.1	22	3.2	3.5	.1	.1	49	16	0	64	6.7	5
Aug. 15.....	5,570	15	.07	4.1	1.6	4.7	1.4	23	5.9	3.0	.0	.3	49	16	0	62	6.8	10
Sept. 15.....	3,920	18	.02	3.7	1.5	5.4	1.3	22	5.0	3.5	.1	.2	56	15	0	59	6.5	5
Chemical analyses, in parts per million, of samples collected intermittently																		
Mar. 18, 1958.....	4,440	9.3	0.02	4.6	0.8	6.1	1.6	20	9.0	4.8	0.1	0.9	49	15	0	74	6.7	15

a Calculated from determined constituents.

CONGAREE RIVER AT COLUMBIA, S. C.

LOCATION.--At Columbia, Richland County, 1,000 feet downstream from Gervais Street Bridge and 14 miles downstream from confluence of Broad and Saluda Rivers.
DRAINAGE AREA.--7,850 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1948 to September 1949, October 1958 to September 1960.

Chemical analyses, in parts per million, water year October 1948 to September 1949

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 14, 1948	7,710	10	0.38	3.5	1.6	4.6	0.9	23	3.8	3.5	0.1	0.3	50	15	0	--	6.6	6	4	4
Nov. 15	5,120	10	.04	3.2	1.4		7.9	26	3.8	3.6	.1	.4	47	14	0	62	6.8	8	3	3
Dec. 16	14,500	8.8	.02	3.1	1.4		7.7	24	4.3	3.6	.1	.9	43	14	0	58	6.2	8	5	3
Jan. 14, 1949	12,700	8.6	.04	3.4	2.1	5.4	1.0	22	4.2	3.6	.1	.5	45	17	0	58	7.0	8	4	3
Feb. 15	14,100	8.2	.06	3.2	1.4		6.5	22	4.2	3.2	.2	.5	42	14	0	55	7.0	5	4	3
Mar. 15	12,400	8.0	.08	3.4	1.4		6.0	22	4.1	3.2	.1	.4	43	14	0	56	7.0	5	4	4
Apr. 20	11,700	9.4	.02	3.2	1.3	5.6	.8	20	4.0	3.5	.1	.7	41	13	0	55	8.8	6	4	3
May 16	10,500	11	.12	3.3	1.6		5.8	22	3.9	3.2	.1	.6	46	15	0	56	6.7	4	4	3
June 23	5,970	13	.05	3.4	1.4		5.2	21	3.2	2.8	.1	.9	42	14	0	51	6.6	3	3	2
July 15	11,500	12	.02	3.5	1.3	2.6	1.0	17	4.0	2.9	.0	.7	42	14	0	50	6.5	3	6	2
Aug. 15	5,310	11	.47	3.6	1.5		7.5	24	4.8	4.5	.1	.4	46	15	0	57	7.5	4	3	3
Sept. 14	12,900	12	.27	3.7	1.7	5.0	1.6	25	5.0	3.9	.0	.3	46	16	0	60	6.7	18	3	2

Chemical analyses, in parts per million, October 1958 to September 1960

Oct. 22, 1958	6,440	11	0.31	3.6	2.2	6.2	1.5	25	2.3	5.7	0.2	0.6	52	18	0	70	6.4	35		
Nov. 17	4,820	15	.00	4.8	2.2	8.7	1.6	35	2.5	5.8	.2	.2	a58	21	0	85	6.7	10		
Dec. 22	3,660	11	.01	3.7	1.5	9.3	1.5	32	2.8	4.3	.1	.8	57	15	0	72	6.9	10		
Jan. 14, 1959	5,440	7.2	.02	3.4	1.2	7.0	1.7	25	3.3	3.7	.0	.6	58	14	0	62	6.2	9		
Feb. 16	11,000	10	.06	3.6	1.2	6.1	1.4	22	3.4	4.5	.2	1.1	56	14	0	63	6.8	30		
Mar. 17	11,300	11	.00	3.8	1.4	5.9	1.2	22	3.7	4.6	.2	1.1	47	15	0	63	7.4	20		
Apr. 17	9,600	11	.02	3.5	1.0	5.2	1.3	20	3.0	4.8	.2	.7	42	13	0	57	6.4	9		
May 27	13,300	13	.01	3.5	1.6	6.6	.8	25	1.9	3.2	.2	1.5	48	15	0	65	6.6	6		
June 16	4,820	12	.00	4.1	1.4	7.1	1.6	28	4.3	4.6	.2	1.1	50	16	0	75	7.0	10		
July 24	16,300	9.7	.02	3.6	1.4	7.0	1.6	26	3.8	4.3	.2	.7	51	15	0	71	6.8	15		
Aug. 12	7,420	10	.02	3.5	2.2	7.9	1.5	28	4.8	5.0	.1	.4	52	18	0	75	6.9	20		
Sept. 15	9,440	10	.02	5.1	1.0	8.6	1.8	28	6.8	5.0	.3	.9	54	17	0	76	6.6	10		
Oct. 28	13,200	13	.00	4.3	1.8	6.5	1.9	28	4.2	3.7	.4	.4	56	18	0	71	6.9	10		
Nov. 25	12,500	12	.04	4.1	1.7	7.5	1.9	28	1.0	5.0	.5	.5	52	17	0	76	6.6	12		
Dec. 23	13,100	10	.01	4.6	.7	6.3	2.0	25	1.4	4.0	.2	1.0	45	14	0	67	6.8	18		
Jan. 29, 1960	10,700	13	.01	4.0	1.7	7.4	1.6	28	3.1	5.5	.2	.8	61	17	0	69	7.0	10		
Feb. 26	27,400	9.2	.02	2.9	1.6	7.2	1.8	25	3.4	4.5	.1	.4	48	14	0	65	6.8	15		
Mar. 18	34,200	11	.03	4.4	1.5	3.9	1.3	18	3.6	4.8	.3	1.2	42	17	2	52	6.6	5		

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

CONGAREE RIVER AT COLUMBIA, S. C.--Continued

Chemical analyses, in parts per million, October 1958 to September 1960--Continued

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Apr. 29, 1960	11,100	13	0.03	3.4	1.7	5.7	1.6	25	2.2	3.0	0.2	1.2	47	16	0	62	6.8	15		
May 13	11,800	9.4	.03	3.0	1.4	6.0	1.9	23	3.4	4.5	.1	1.0	51	13	0	63	7.0	10		
June 14	6,510	13	.02	3.4	1.6	6.4	1.7	27	1.7	4.0	.1	1.7	50	15	0	63	6.7	5		
July 15	9,670	10	.10	3.6	1.1	5.0	1.7	21	3.1	3.0	.0	1.0	50	14	0	58	6.4	20		
Aug. 12	8,270	14	.01	4.0	1.6	7.4	1.5	28	7.6	3.0	.4	.3	a54	16	0	68	7.2	5		
Sept. 15	7,830	14	.01	4.0	1.7	6.3	1.8	26	5.6	4.0	.4	.4	a51	17	0	67	6.5	5		
Chemical analyses, in parts per million, of samples collected intermittently																				
Aug. 15, 1946	9,280	12	0.05	3.3	1.4	7.8		25	4.4	3.2	0.2	1.1	49	14	0	--	7.1	9		
Jan. 18, 1950	9,620	10	.03	3.8	1.6	5.7		21	4.3	3.6	.5	.4	43	16	0	57	6.7	8		
Mar. 24	9,740	12	.04	5.0	1.7	5.4		24	5.0	3.2	.8	.4	49	20	0	61	6.8	7		
May 2	6,550	13	.04	4.6	1.8	7.3		28	4.0	3.5	1.0	.1	52	19	0	67	7.1	3		
June 19	5,130	14	.09	4.1	1.4	7.1		27	3.3	3.2	.2	1.0	46	16	0	65	6.5	8		
Dec. 15	8,400	11	.03	4.1	1.4	6.1		21	4.4	3.9	.4	1.1	47	16	0	65	6.7	9		
Mar. 9, 1951	--	14	.03	6.0	1.8	7.7		34	4.0	4.0	.1	.5	55	22	0	72	6.5	2		
May 17	3,930	13	.01	5.5	1.7	8.5		32	4.7	4.1	.6	.9	54	21	0	89	7.3	2		
Dec. 13	5,030	12	.03	7.5	1.1	5.5		27	4.2	5.1	.3	.8	55	23	1	70	6.6	9		
Apr. 16, 1952	10,400	11	.06	3.4	1.5	8.9		26	5.1	4.5	.1	1.0	53	15	0	78	6.5	7		
Mar. 30, 1953	7,840	11	.03	4.0	1.5	7.9		25	5.4	4.0	.4	.6	46	16	0	114	7.1	6		
May 13	5,500	14	.02	4.0	1.8	8.3		27	4.9	4.0	.6	1.2	55	17	0	79	6.5	16		
June 17	5,390	12	.03	4.8	.5	7.2		19	5.7	3.5	.9	1.0	52	14	0	66	6.4	7		
Jan. 12, 1954	--	9.2	.20	4.6	1.3	8.4		24	6.5	5.0	.4	.7	56	17	0	83	6.7	28		
Feb. 18	--	9.1	.12	3.5	1.1	10		24	5.3	5.2	.7	.8	51	13	0	77	6.7	7		
May 12	--	12	.03	3.8	1.8	8.1	1.6	28	5.6	4.2	.4	.9	53	17	0	74	6.4	14		
May 3, 1955	3,360	17	.02	4.7	1.5	6.9	1.8	26	5.0	2.5	.6	.7	57	18	0	75	6.9	15		
June 20	3,110	10	.03	4.3	1.3	9.1	1.7	30	5.6	4.5	.3	1.2	56	16	0	79	7.1	5		
Mar. 26, 1956	4,720	13	.01	5.0	.9	6.4	1.6	25	5.7	4.0	.5	.8	51	16	0	72	6.6	7		
May 15	8,640	12	.01	4.2	1.5	7.5	1.5	31	3.5	4.0	.4	1.2	51	16	0	77	7.0	7		
May 17, 1957	5,200	8.0	.03	4.0	1.9	7.2	1.4	26	3.4	5.5	.9	3.6	64	18	0	78	6.2	10		
May 15, 1958	15,600	8.9	.01	4.0	1.9	7.4	1.6	24	5.9	4.0	.2	1.3	51	18	0	70	6.2	20		

a Calculated from determined constituents.

ENOREE RIVER NEAR ENOREE, S. C.

LOCATION.--At gaging station at bridge on State Highway 49, three-fourths of a mile upstream from Warrior Creek, and 4 miles southeast of Enoree, Spartanburg County.
DRAINAGE AREA.--307 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1947 to September 1948.

Chemical analyses, in parts per million, water year October 1947 to September 1948

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 15, 1947	155	16	0.10	3.0	1.0	11		34	3.7	2.8	0.1	0.3	56	12	0		7.1	5	3	2
Nov. 17	672	11	.04	2.5	.9	4.7		15	3.7	2.5	.0	.5	35	10	0		6.4	8	4	2
Dec. 17	468	12	.02	2.4	1.1	6.7		21	4.3	2.2	.0	.4	40	10	0		6.5	10	5	3
Jan. 19, 1948	336	14	.02	3.2	1.0	6.7		22	4.2	2.8	.0	.5	43	12	0		7.1	20	1	1
Feb. 17	698	11	.03	2.6	.8	4.9		15	3.9	2.5	.0	.7	34	10	0		6.9	18	3	2
Mar. 12	610	13	.01	2.9	1.1	7.1		20	5.4	3.2	.1	.5	42	12	0		7.1	6	1	1
Apr. 19	478	14	.02	3.2	1.5	5.5		23	2.5	2.8	.1	.6	41	14	0		7.1	20	2	2
May 17	338	14	.04	3.6	1.4	7.1		26	4.1	2.8	.0	.8	52	15	0		7.1	15	2	2
June 15	249	16	.16	2.9	1.0	4.8		20	2.4	1.1	.1	1.4	48	11	0	73	6.4	25	6	5
July 15	284	12	.12	1.8	.7	8.2		16	6.0	3.2	.1	1.4	47	7	0		6.6	3	4	3
Aug. 16	230	13	.03	2.6	.9	8.1		24	3.8	2.2	.1	1.0	46	10	0		6.9	4	4	2
Sept. 14	162	15	.04	2.1	.9	9.0		24	3.0	3.2	.1	1.3	53	9	0		6.8	7	3	2

Chemical analyses, in parts per million, of samples collected intermittently

Feb. 25, 1946	532	13	0.09	2.6	1.1	6.9		21	4.1	2.5	0.1	0.9	43	11	0	51	6.5	13		
Nov. 30, 1949	391	14	.07	4.0	2.0	3.7		23	2.6	2.8	.1	.6	40	18	0	47	7.1	6		
May 4, 1950	436	12	.04	3.0	.9	6.8		19	5.4	2.6	.1	1.2	42	11	0	55	6.1	4		
May 8, 1951	228	15	.02	3.8	.9	6.5		22	2.3	3.2	.1	2.7	47	13	0	56	6.2	3		
Jan. 5, 1952	300	17	.05	2.8	1.1	7.8		23	4.4	3.0	.1	.5	50	12	0	60	6.7	16		
May 5	382	15	.06	3.0	1.3	5.8		22	2.6	2.5	.1	1.0	42	13	0	55	6.3	14		
Jan. 14, 1953	373	12	.04	2.6	1.0	6.6		18	4.8	3.0	.0	1.2	42	11	0	51	7.4	6		
June 25	162	16	.08	3.5	1.0	11		29	5.1	4.0	.1	1.8	68	13	0	80	6.6	9		
Nov. 16	129	15	.29	3.4	.8	29		68	11	4.5	.1	.1	100	12	0	154	7.0	16		
May 20	258	15	.01	2.6	.6	13		31	5.5	3.2	.1	1.7	59	9	0	79	6.3	4		
May 24, 1955	881	9.5	.03	2.5	.9	3.5	2.6	10	5.5	2.8	.1	2.1	36	10	2	41	7.0	7		
Apr. 5, 1956	275	12	.23	3.0	.7	13	1.8	41	4.9	3.0	.0	1.0	71	10	0	89	6.8	27		
Apr. 18, 1957	335	14	.19	2.8	.6	11	3.2	34	4.7	2.5	.1	1.2	a57	10	0	77	6.7	15		
Apr. 15, 1958	704	13	.00	2.6	1.3	3.6	1.2	19	3.1	3.0	.1	1.3	40	12	0	44	6.5	10		
Jan. 27, 1959	270	13	.00	2.8	1.1	7.6	1.5	25	2.6	2.1	.0	1.0	48	11	0	56	6.3	8		
May 17, 1960	395	16	.06	3.0	1.3	5.2	1.7	23	2.4	1.5	.1	1.7	a44	13	0	56	6.6	5		

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

NORTH PACOLET RIVER AT FINGERVILLE, S. C.

LOCATION.--At gaging station at McMillin Mill, abut 400 feet downstream from Obed Creek, and 1 mile south of Fingerville, Spartanburg County.
DRAINAGE AREA.--116 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1951 to September 1952.

Chemical analyses, in parts per million, water year October 1951 to September 1952

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 15, 1951	68	15	0.04	4.5	1.7	6.7	0.9	38	2.2	1.8	0.0	0.2	52	18	0	69	7.4	16	3	2
Nov. 15	107	15	.03	3.0	1.1	14		44	3.1	2.1	.1	.1	58	12	0	77	7.3	7	3	2
Dec. 15	180	12	.05	2.6	1.3	7.8		27	3.0	2.1	.1	.6	45	12	0	61	6.8	60	5	2
Jan. 15, 1952	174	14	.08	2.8	1.2	7.5	2.2	29	2.6	3.6	.1	.4	48	12	0	61	7.1	4	4	2
Feb. 15	176	14	.10	3.2	1.3	4.2		20	2.5	2.1	.1	.4	38	13	0	46	6.6	7	2	1
Mar. 17	300	13	.03	2.6	1.1	4.0		16	2.7	2.2	.1	.5	33	11	0	38	6.8	1	3	1
Apr. 16	250	12	.18	3.0	1.2	6.7	.8	23	2.7	3.5	.1	.5	44	12	0	49	6.4	4	2	1
May 18	158	15	.08	3.6	1.4	3.7		22	2.3	1.4	.0	.5	41	15	0	46	6.5	6	4	3
June 16	140	14	.08	3.1	1.8	6.1		26	2.6	2.0	.0	1.0	46	14	0	54	6.8	6	5	2
July 28	93	15	.16	3.8	1.5	4.9	.8	27	1.9	1.9	.1	.7	44	16	0	56	6.7	45	4	2
Aug. 30	134	16	.04	4.0	1.6	6.6		30	2.6	2.0	.1	.6	54	17	0	68	6.7	22	3	1
Sept. 16	100	15	.10	4.0	1.6	5.8	.7	31	2.1	2.1	.1	.5	46	17	0	61	7.0	12	3	2

Chemical analyses, in parts per million, of samples collected intermittently

Sept. 23, 1946	225	10	0.02	2.9	1.2	5.3		21	3.1	1.8	0.1	0.6	35	12	0	--	6.1	7		
May 18, 1949	198	14	.03	2.3	.9	7.5		23	3.8	1.6	.1	.6	42	9	0	52	6.9	7		
June 2, 1955	114	9.5	.08	3.2	1.2	13	1.3	43	3.5	3.0	.1	.8	61	13	0	82	7.0	10		
Mar. 7, 1956	178	12	.00	2.8	1.8	12	1.5	39	5.0	3.0	.1	1.5	61	15	0	89	6.7	10		
Feb. 18, 1959	201	14	.01	2.8	1.3	8.0	.9	32	1.0	2.2	.1	.5	48	12	0	62	6.9	5		
Mar. 17, 1960	588	5.8	.02	2.9	1.9	4.5	1.0	21	1.5	4.0	.0	.9	35	15	0	50	6.8	5		

NORTH TYGER RIVER NEAR MOORE, S. C.

LOCATION.--At gaging station on right bank at Ott Shoals, 2.0 miles upstream from Wards Creek, 2.6 miles southeast of Moore, Spartanburg County, and 5.3 miles upstream from confluence with South Tyger River.
DRAINAGE AREA.--162 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1948 to September 1949.

Chemical analyses, in parts per million, water year October 1948 to September 1949

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 15, 1948	93.0	16	0.12	1.3	0.3	86	2.8	a205	17	14	0.1	1.6	248	4	0	--	9.9	33	8	4
Nov. 15	164	14	.02	5.2	1.8	28		65	11	12	.0	.1	106	20	0	168	6.8	12	6	3
Dec. 15	223	12	.04	3.1	1.1	30		71	10	7.0	.0	.1	100	12	0	151	7.0	16	4	3
Jan. 15, 1949	248	16	.01	3.0	.9	27	2.2	61	14	8.8	.0	.1	102	11	0	161	7.0	16	5	3
Feb. 15	304	10	.06	2.2	.9	17		42	5.4	3.4	.1	1.0	62	9	0	89	6.8	3	2	2
Mar. 15	282	11	.03	1.8	.8	24		53	7.6	4.5	.1	1.2	77	8	0	115	7.3	12	3	2
Apr. 15	527	9.7	.04	2.4	.9	13	1.1	34	8.0	3.2	.1	.7	58	10	0	85	6.6	7	5	3
May 15	232	13	.05	3.3	1.3	29		66	11	7.6	.1	.0	100	14	0	154	7.0	7	4	2
June 15	210	14	.04	2.0	.9	30		65	8.8	7.4	.0	.1	95	9	0	147	7.5	12	5	3
July 15	259	12	.02	2.0	.8	22	2.2	53	10	7.2	.0	.1	88	8	0	127	7.0	7	9	4
Aug. 15	103	15	.02	6.8	2.3	17		60	5.0	5.9	.1	1.5	83	26	0	125	6.8	2	2	1
Sept. 15	208	13	.08	3.6	1.3	28	2.6	70	12	10	.0	.1	105	14	0	165	7.1	17	4	2

Chemical analyses, in parts per million, of samples collected intermittently

Feb. 25, 1946	288	12	0.16	3.1	1.5	8.9		28	5.3	2.8	0.1	0.6	49	14	0	63	6.7	17		
Nov. 30, 1949	218	14	.16	3.4	1.8	24		54	10	8.5	.1	.5	90	16	0	143	6.6	9		
Feb. 17, 1950	218	10	.07	3.9	1.6	29		53	15	13	.0	3.6	102	16	0	158	6.2	18		
Mar. 30	283	10	.20	2.9	1.2	22		48	13	4.8	.1	1.4	89	12	0	135	6.4	19		
May 10	147	14	.09	3.2	1.3	35		67	15	13	.1	1.7	118	13	0	190	6.7	7		
Nov. 15	131	14	.04	3.2	1.3	42		63	31	14	.0	1.5	142	13	0	227	6.5	5		
Jan. 11, 1951	110	8.9	.13	2.4	1.0	60		115	22	16	.0	1.5	177	10	0	288	7.1	6		
May 8	170	11	.05	1.6	.6	31		65	8.4	7.8	.2	.1	93	6	0	146	7.2	16		
June 19	310	10	.04	2.2	.9	20		32	15	5.1	.2	2.8	72	9	0	103	6.4	10		
Oct. 16	85	15	.07	6.2	1.6	102		175	55	30	.2	.2	297	22	0	488	7.5	45		
Jan. 4, 1952	192	15	.20	2.6	1.1	40		84	17	7.8	.1	1.0	126	11	0	198	7.0	32		
Mar. 18	302	12	.11	2.5	1.0	17		45	3.4	3.9	.1	1.0	72	10	0	104	6.4	18		
May 6	209	13	.07	2.4	1.0	27		62	8.8	5.2	.1	1.7	97	10	0	142	6.6	3		
Jan. 14, 1953	229	11	.09	2.4	.9	40		80	17	7.2	.1	2.7	123	10	0	193	7.1	11		
Apr. 16	188	15	.16	3.6	.9	55		120	20	9.0	.0	.6	180	13	0	266	7.0	25		
June 25	104	13	.02	3.0	.6	68		142	24	10	.0	2.8	201	10	0	323	7.0	7		
Nov. 17	100	15	.06	2.4	1.0	107		206	35	27	.0	.1	298	10	0	486	7.8	22		
May 26, 1955	266	7.9	.03	3.2	.8	24	3.0	60	8.2	9.2	.1	.7	93	11	0	141	7.7	10		

a Includes equivalent of 64 parts per million of carbonate (CO_3).

SANTEE RIVER BASIN--Continued

NORTH TYGER RIVER NEAR MOORE, S. C.--Continued

Chemical analyses, in parts per million, of samples collected intermittently--Continued

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Apr. 5, 1956.....	179	13	1.1	3.2	1.0	32	2.6	93	8.9	6.2	0.0	0.1	b114	12	0	172	7.1	10		
Apr. 18, 1957.....	200	12	.11	2.8	.3	32	2.7	76	6.8	3.8	.1	2.5	105	8	0	167	6.7	17		
Apr. 14, 1958.....	304	12	.09	4.0	1.1	13	2.0	35	4.7	4.0	.0	2.5	60	15	0	84	6.4	20		
Jan. 26, 1959.....	199	10	.11	3.5	1.0	20	2.0	48	5.8	6.8	.0	2.7	84	13	0	122	6.3	18		
May 16, 1960.....	237	14	.03	3.3	2.0	25	1.0	71	8.5	5.0	.1	1.2	96	16	0	150	7.0	5		

b Calculated from determined constituents.

PACOLET RIVER NEAR FINGERVILLE, S. C.

LOCATION.--At gaging station, 100 feet upstream from highway bridge, a quarter of a mile downstream from confluence of North Pacolet and South Pacolet Rivers, and 2-1/2 miles southeast of Fingerville, Spartanburg County.
DRAINAGE AREA.--212 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1952 to September 1953, November 1958 to September 1960.

Chemical analyses, in parts per million, water year October 1952 to September 1953

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 18, 1952	129	13	0.03	2.6	1.0	6.0	0.9	27	2.8	2.5	0.1	0.5	44	11	0	55	7.3	26	3	2
Nov. 22	187	14	.09	2.6	1.0	7.1		24	2.7	2.2	.1	.4	44	11	0	54	7.0	19	3	2
Dec. 17	194	12	.08	2.6	1.0	5.5		19	3.1	2.2	.1	.6	37	11	0	44	6.9	7	4	2
Jan. 22, 1953	322	12	.03	2.0	.8	3.8	2.0	17	2.9	2.2	.1	.8	34	8	0	57	6.6	5	4	2
Feb. 17	600	12	.09	2.6	1.0	5.6		16	3.4	2.4	.1	.9	36	11	0	43	6.4	4	2	2
Mar. 16	328	13	.03	3.0	1.3	5.6		22	3.4	2.2	.1	.5	36	13	0	60	6.5	19	4	2
Apr. 15	245	13	.17	2.6	1.1	5.0	.9	23	2.6	2.1	.1	.5	39	11	0	50	6.9	9	5	2
May 25	196	12	.08	2.4	1.0	6.3		21	2.0	2.5	.1	1.0	38	10	0	41	6.6	25	--	--
June 16	545	10	.03	2.6	.9	4.5		16	3.7	1.8	.0	.7	34	10	0	39	6.1	4	15	2
July 15	141	14	.02	2.9	1.0	9.6		30	3.0	3.0	.1	.6	52	11	0	70	6.7	7	--	--
Aug. 14	98	14	.02	2.7	1.3	7.9		27	2.6	2.5	.0	.8	51	12	0	78	6.7	16	--	--
Sept. 16	69	11	.06	2.4	1.0	9.5	1.3	30	4.0	2.8	.0	.4	50	10	0	66	7.1	8	5	4

Chemical analyses, in parts per million, November 1958 to September 1960

Nov. 13, 1958	156	17	0.05	4.6	1.6	9.5	1.0	39	2.8	3.0	0.0	0.1	60	19	0	80	6.7	10		
Dec. 17	176	13	.00	3.0	.8	9.2	1.1	30	1.2	3.0	.0	1.0	50	11	0	62	7.0	9		
Jan. 15, 1959	235	13	.01	3.1	1.2	7.4	1.0	28	2.2	2.5	.0	1.0	49	13	0	56	6.8	9		
Feb. 16	411	14	.01	3.6	1.4	3.3	.8	22	1.6	1.6	.1	.9	39	15	0	45	7.4	5		
Feb. 17	360	13	.01	2.8	1.1	4.3	.9	22	.6	2.3	.1	.9	39	12	0	46	7.1	5		
Mar. 16	329	13	.02	3.6	1.7	3.4	.8	24	1.1	2.0	.1	1.0	39	16	0	46	7.1	5		
Apr. 15	590	12	.00	2.1	1.1	7.5	1.0	24	1.9	2.5	.1	1.4	42	10	0	54	7.5	10		
May 14	516	12	.00	3.3	.9	5.3	1.2	25	1.6	2.5	.1	.6	45	12	0	53	6.6	4		
June 15	299	14	.01	3.1	1.5	3.3	.7	22	1.6	1.3	.1	.3	40	14	0	46	6.8	2		
July 15	385	11	.01	2.4	1.3	5.2	1.4	24	1.6	1.5	.1	.9	39	11	0	52	6.5	5		
Aug. 16	164	14	.01	3.4	2.0	7.7	1.1	31	1.4	4.2	.1	.6	51	17	0	66	7.0	10		
Sept. 14	245	15	.01	3.7	1.5	3.5	.9	22	2.5	2.0	.0	.6	43	15	0	52	7.1	10		
Oct. 15	1,020	11	.02	3.8	1.1	2.6	3.0	16	4.6	2.7	.1	1.7	40	14	1	51	6.7	5		
Nov. 16	280	16	.01	3.6	1.8	3.9	1.3	24	3.3	2.5	.0	.3	54	16	0	51	7.2	10		
Dec. 15	388	14	.01	2.7	1.2	7.2	1.3	28	3.1	2.5	.0	1.0	a46	12	0	57	7.3	5		
Jan. 14, 1960	290	13	.00	1.8	1.5	6.2	1.2	23	2.2	3.2	.1	.8	49	10	0	50	7.0	5		
Feb. 15	441	13	.01	3.2	1.4	3.0	1.0	19	1.3	2.5	.0	.9	38	14	0	46	6.7	10		
Mar. 17	815	9.7	.00	2.7	1.0	3.5	1.1	18	1.6	1.7	.1	1.1	a32	11	0	40	7.1	5		

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

PACOLET RIVER NEAR FINGERVILLE, S. C.--Continued

Chemical analyses, in parts per million, November 1958 to September 1960--Continued

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Apr. 14, 1960	509	12	0.04	2.6	1.2	3.7	1.1	20	4.0	1.0	0.1	1.0	42	12	0	44	7.3	5		
May 16	407	13	.12	3.5	1.2	3.2	1.1	22	1.7	2.1	.0	.9	40	14	0	48	7.2	5		
June 15	386	12	.06	2.9	1.0	5.7	1.2	25	3.0	1.5	.2	.0	a40	11	0	54	6.6	10		
July 14	350	13	.01	3.3	1.5	6.2	1.0	28	5.0	1.5	.1	.0	a46	14	0	55	6.8	5		
Aug. 15	290	14	.07	4.1	1.2	2.8	1.4	24	2.1	1.0	.0	.3	a39	15	0	50	6.7	8		
Sept. 15	185	15	.10	3.4	1.4	9.9	1.2	36	2.4	3.5	.0	1.4	56	14	0	71	7.3	15		
Chemical analyses, in parts per million, of samples collected intermittently																				
Dec. 6, 1950	211	14	0.09	2.6	2.2	5.5		24	3.2	2.8	0.1	0.3	48	16	0	46	6.9	4		
May 24, 1951	174	14	.06	3.6	1.0	4.5		22	2.0	1.5	.1	.5	40	13	0	48	6.6	7		
June 2, 1955	162	12	.01	3.4	1.6	6.5	1.4	26	5.2	2.5	.1	.9	47	15	0	62	7.3	10		
Mar. 7, 1956	264	12	.00	3.4	1.2	5.6	1.0	24	2.4	1.5	.1	1.1	42	13	0	55	6.6	10		
May 21, 1957	277	14	.12	3.2	1.5	4.1	1.1	21	4.0	3.0	.0	.9	a42	14	0	48	6.3	20		
May 23, 1958	307	14	.00	2.8	1.5	7.6	.8	29	3.9	3.0	.2	.8	49	13	0	61	6.6	10		

a Calculated from determined constituents.

SALUDA RIVER AT CHAPPELLS, S. C.

LOCATION.--At gaging station at bridge on State Highway 39 at Chappells, Newberry County, 7 miles downstream from dam at Lake Greenwood and 8-1/4 miles upstream from Little River.
DRAINAGE AREA.--1,350 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1946 to September 1947.
Water temperatures: October 1946 to September 1947.
EXTREMES, 1946-47.--Dissolved solids: Maximum, 62 ppm Dec. 1-10, 21-31; minimum, 39 ppm Feb. 20-28.
Hardness: Maximum, 17 ppm Nov. 11-20, Dec. 21-31, Aug. 1-10, 21-31, Sept. 1-10; minimum, 12 ppm Feb. 11-19, Mar. 1-20.
Water temperatures: Maximum, 82°F Aug. 25; minimum, 40°F Feb. 10, Mar. 3.
REMARKS.--Records of suspended matter of composite samples available in district office at Raleigh, N. C.

Chemical analyses, in parts per million, water year October 1946 to September 1947

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 1-10, 1946....	1,613	13	0.06	3.4	1.5	7.2	2.1	28	4.3	3.2	0.1	0.4	51	15	0		6.9	15	3	2
Oct. 11-20.....	1,150	12	.05	3.8	1.5	8.4		28	5.1	3.5	.1	.6	52	16	0		7.0	5	3	2
Oct. 21-31.....	1,423	13	.17	3.5	1.4	9.2		29	4.8	3.5	.1	.6	54	14	0		7.0	5	2	2
Nov. 1-10.....	1,267	14	.13	3.9	1.5	9.7		31	5.3	3.8	.1	.5	58	16	0		7.1	5	3	2
Nov. 11-20.....	1,530	15	.14	4.4	1.5	7.2		30	5.7	4.5	.1	.8	60	17	0		7.0	20	2	2
Nov. 21-30.....	1,767	16	.14	3.7	1.3	11		31	5.8	4.5	.1	.8	61	15	0		6.9	14	2	2
Dec. 1-10.....	1,678	18	.16	3.7	1.5	11		31	6.4	4.1	.1	.9	62	15	0		7.2	19	2	2
Dec. 11-20.....	1,666	16	.15	3.8	1.4	11		30	6.7	4.5	.1	.8	60	15	0		7.1	16	2	2
Dec. 21-31.....	932	16	.07	4.0	1.6	11		33	6.5	4.5	.0	.8	62	17	0		6.9	6	3	2
Jan. 1-10, 1947....	2,057	16	.16	3.8	1.5	9.6		28	6.6	4.4	.0	.7	60	16	0		6.9	18	4	3
Jan. 11-20.....	2,800	13	.01	3.7	1.5	7.4	2.2	26	5.8	3.9	.2	.5	53	16	0		6.7	20	6	4
Jan. 21-31.....	3,932	12	.01	3.0	1.3	7.6	2.1	24	5.1	3.6	.1	.8	49	13	0		6.7	10	4	2
Feb. 1-10.....	2,480	12	.16	3.0	1.3	7.5		22	4.6	3.8	.1	.8	49	13	0		6.9	10	4	3
Feb. 11-19.....	2,026	11	.01	2.8	1.1	6.0		20	4.3	2.2	.1	.4	42	12	0		6.9	20	5	3
Feb. 20-28.....	1,934	10	.01	3.2	1.3	5.1		18	4.9	2.8	.1	.4	39	13	0	49	6.9	18	--	--
Mar. 1-10.....	2,401	10	.02	2.7	1.2	4.8		16	4.2	2.8	.1	.5	40	12	0		7.1	14	4	3
Mar. 11-20.....	2,477	12	.04	2.3	1.5	6.3		18	4.4	4.2	.1	.2	45	12	0		6.6	5	2	--
Mar. 21-31.....	2,227	13	.03	3.0	1.6	7.3		22	4.2	4.5	.1	1.1	49	14	0		6.6	5	4	2
Apr. 1-10.....	1,995	13	.01	3.3	1.4	6.5	1.5	23	4.7	3.8	.2	.6	51	14	0		6.7	4	3	2
Apr. 11-20.....	1,914	13	.02	3.7	1.5	6.7		24	4.3	3.4	.2	.7	52	15	0		6.8	3	4	2
Apr. 21-30.....	1,771	13	.04	3.6	1.4	7.1		24	4.4	3.4	.2	.6	50	15	0		6.9	4	3	2
May 1-10.....	1,761	12	.05	3.4	1.4	7.2		23	4.4	3.9	.2	.5	51	14	0		6.9	3	2	2
May 11-20.....	1,230	12	.02	3.2	1.4	7.9		25	4.4	3.6	.1	.6	50	14	0		6.9	3	3	2
May 21-31.....	1,386	13	.08	3.2	1.6	7.3		25	4.1	3.4	.2	.5	53	15	0		6.9	5	2	2
June 1-10.....	1,209	13	.09	3.0	1.5	7.7		25	3.9	3.5	.1	.7	51	14	0		6.9	5	2	2
June 11-20.....	1,451	14	.05	3.6	1.5	7.7		26	4.6	3.5	.1	.8	54	15	0		6.7	10	4	2
June 21-30.....	1,282	13	.03	3.8	1.6	7.9		27	4.4	3.9	.2	.6	54	16	0		7.0	12	4	3
July 1-10.....	1,187	14	.05	3.8	1.5	7.0	1.8	28	4.2	3.5	.2	.4	54	16	0		7.2	10	3	2
July 11-20.....	1,369	14	.03	3.7	1.5	8.6		29	4.4	3.5	.2	.4	54	15	0		6.9	4	2	--
July 21-31.....	1,520	13	.03	3.4	1.6	8.8		30	4.0	3.4	.2	.2	54	15	0		6.9	10	3	2

SANTEE RIVER BASIN--Continued

SALUDA RIVER AT CHAPPELLS, S. C.--Continued

Chemical analyses, in parts per million, water year October 1946 to September 1947--Continued

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Aug. 1-10, 1947....	1,216	14	0.05	4.0	1.6	8.2		30	4.1	3.4	0.2	0.4	55	17	0		6.9	10	3	2
Aug. 11-20.....	1,276	14	.01	4.1	1.5	8.3		30	4.1	3.4	.2	.3	54	16	0		7.1	14	4	2
Aug. 21-31.....	1,253	14	.03	4.1	1.7	8.0		30	4.5	3.2	.2	.4	51	17	0		7.1	16	3	2
Sept. 1-10.....	1,301	14	.07	4.2	1.5	9.5		33	4.5	3.4	.2	.4	54	17	0		6.7	9	3	2
Sept. 11-20.....	1,200	14	.07	3.7	1.4	9.9		31	4.7	3.8	.2	.3	55	15	0		6.9	10	2	2
Sept. 21-30.....	1,189	14	.08	3.8	1.4	8.4	2.3	31	4.5	4.0	.2	.2	55	15	0		7.1	8	3	2
Average.....	1,692	13	0.06	3.5	1.5	8.2		27	4.8	3.7	0.1	0.6	53	15	0		--	10	4	2
Chemical analyses, in parts per million, of samples collected intermittently																				
Dec. 15, 1949.....	2,150	11	0.09	3.0	1.4	6.7		21	4.5	3.5	0.2	0.6	44	13	0	57	6.7	8		
May 10, 1950.....	1,250	16	.06	3.1	1.0	8.1		25	4.0	3.0	.0	.7	49	12	0	63	6.6	6		
Oct. 4, 1951.....	796	11	.02	3.4	1.4	11		32	4.2	5.0	.2	.4	53	14	0	82	6.7	3		
May 4, 1953.....	3,580	11	.02	2.6	.7	9.3		23	4.4	3.8	.1	1.0	46	10	0	65	6.4	7		
June 3.....	1,380	8.6	.04	3.6	1.6	7.9		27	3.9	4.2	.1	.6	50	16	0	69	6.6	17		
Mar. 10, 1954.....	2,100	11	.13	2.2	.7	6.1		14	4.7	2.8	.1	1.3	40	8	0	46	6.7	12		
May 27.....	1,340	7.9	.05	2.8	1.0	7.1	1.7	22	5.4	3.5	.1	1.1	43	11	0	58	6.8	12		
Apr. 20, 1955.....	2,510	7.1	.05	2.5	.9	10	1.6	25	7.0	5.0	.0	1.3	54	10	0	77	7.2	15		
June 21, 1956.....	938	7.5	.00	3.8	.8	6.5	1.5	23	5.4	3.0	.1	1.2	45	13	0	59	6.7	10		
Apr. 15, 1957.....	3,010	14	.13	3.6	.5	8.8	1.1	23	1.8	5.8	.1	2.9	61	11	0	70	6.2	20		
Apr. 8, 1958.....	3,920	12	.05	2.4	.8	7.6	1.6	20	3.7	4.0	.0	1.2	46	9	0	57	6.4	10		
Jan. 28, 1959.....	1,310	12	.03	3.4	1.2	17	1.8	40	5.2	7.3	.0	1.7	70	13	0	108	6.6	12		
Apr. 12, 1960.....	3,880	12	.03	2.9	.7	5.4	1.4	19	2.9	3.7	.2	1.2	40	10	0	53	7.5	5		

SANTEE RIVER BASIN--Continued

SALUDA RIVER AT CHAPPELLS, S. C.--Continued

Temperature (°F) of water, water year October 1946 to September 1947

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	65	57	49	48	42	48	64	68	75	79	77
2	68	65	56	48	48	42	51	64	67	75	79	79
3	68	66	54	49	47	40	53	64	70	74	78	79
4	68	65	53	48	48	41	52	63	71	74	76	80
5	68	65	55	48	44	42	53	65	69	74	78	80
6	67	64	52	47	44	43	54	65	70	74	78	80
7	67	64	51	46	45	42	54	66	73	73	77	79
8	69	64	50	48	44	42	56	65	74	75	77	79
9	66	63	50	48	43	42	56	64	74	73	77	79
10	66	62	51	46	40	43	57	63	75	74	77	79
11	68	63	53	45	41	42	56	62	74	75	75	79
12	70	63	54	48	43	42	56	60	73	76	76	79
13	68	61	55	49	42	43	59	64	73	75	75	78
14	62	60	53	48	42	45	58	65	71	73	77	77
15	65	59	52	49	43	47	58	66	72	76	77	78
16	64	59	51	50	43	47	58	66	72	76	76	77
17	66	61	53	51	45	45	60	67	73	76	77	78
18	66	59	55	48	43	44	60	68	73	76	76	77
19	66	59	50	48	45	45	60	68	74	77	77	77
20	66	59	50	49	44	44	60	68	74	75	77	76
21	65	59	49	48	44	46	60	69	74	75	78	75
22	64	60	48	45	42	47	60	68	70	76	78	75
23	63	58	46	45	43	47	60	68	70	76	79	72
24	63	54	47	45	41	48	61	68	71	76	78	70
25	65	58	48	46	41	48	62	68	73	75	82	71
26	65	59	46	48	41	47	63	68	73	75	79	70
27	64	60	48	46	41	47	62	68	74	74	79	69
28	65	58	50	46	42	47	60	70	74	75	79	67
29	65	57	52	48	--	47	62	70	75	76	80	65
30	66	58	51	49	--	48	63	70	74	77	79	65
31	66	--	49	49	--	48	--	70	--	77	77	--
Average	66	61	51	48	43	45	58	86	72	75	78.	76

SANTEE RIVER BASIN--Continued

SALUDA RIVER NEAR GREENVILLE, S. C.

LOCATION.--At bridge on U. S. Highway 123 alternate, 700 feet downstream from gaging station, 1.5 miles downstream from Saluda Lake Dam, 2.6 miles upstream from George Creek, and 4.6 miles west of city hall in Greenville, Greenville County.
DRAINAGE AREA.--293 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1950 to September 1951.

Chemical analyses, in parts per million, water year October 1950 to September 1951

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 16, 1950	307	14	0.06	2.2	0.6	2.8	1.0	15	1.4	1.4	0.1	0.1	30	8	0	30	6.8	7	2	1
Nov. 15	361	14	.04	1.8	.6	3.3		13	1.1	1.6	.0	.1	28	7	0	30	6.5	7	1	1
Dec. 15	536	10	.02	1.4	.5	3.3		11	1.5	1.5	.0	.2	25	6	0	25	6.5	9	2	1
Jan. 13, 1951	283	9.4	.04	1.9	.6	3.6	1.0	13	2.6	1.2	.2	.3	28	7	0	27	6.9	11	4	1
Feb. 15	422	15	.02	1.5	.5	3.1		11	1.6	1.2	.0	.2	28	6	0	28	6.4	3	2	2
Mar. 15	660	14	.02	1.6	.6	3.2		12	1.2	1.4	.0	.4	29	6	0	27	6.4	2	6	2
Apr. 16	636	11	.04	1.3	.5	1.3	1.1	9	1.1	1.1	.0	.2	24	5	0	24	6.3	3	3	2
May 15	436	13	.04	2.2	.7	3.7		16	1.2	1.2	.1	.3	31	8	0	32	6.2	4	4	2
June 16	344	12	.05	1.6	.6	3.7		13	1.2	1.5	.1	.4	28	6	0	27	6.2	4	4	2
July 16	406	15	.03	2.2	.8	3.9	.8	16	3.3	1.5	.0	.3	36	9	0	32	6.9	23	2	2
Aug. 15	227	13	.04	2.4	.9	4.2		18	1.3	1.6	.1	.2	32	10	0	31	6.2	5	4	2
Sept. 17	210	11	.02	2.0	.7	2.9	1.2	14	2.0	1.4	.0	.3	28	8	0	29	6.2	7	4	2

Chemical analyses, in parts per million, of samples collected intermittently

Aug. 13, 1946	310	13	0.05	2.3	0.9	3.0		15	1.5	1.4	0.0	0.3	32	9	0	--	--	8		
June 14, 1949	755	14	.02	2.0	.8	3.6		15	1.4	1.4	.0	.5	30	8	0	28	6.3	4		
Apr. 21, 1955	473	11	.06	2.0	.5	1.9	0.9	11	1.4	.5	.0	.5	30	8	0	29	6.7	17		
Apr. 4, 1956	397	12	.02	2.4	.4	2.3	.8	13	.9	1.2	.1	.4	30	8	0	32	6.5	3		
Apr. 7, 1958	2,050	8.9	.07	2.0	.2	1.7	.9	8	1.6	2.0	.1	.8	22	6	0	22	6.6	10		
Jan. 27, 1959	450	9.4	.01	1.8	.1	2.1	.7	11	.9	.5	.0	.4	34	5	0	22	6.0	10		
Apr. 13, 1960	1,020	12	.03	1.9	.7	1.8	.8	12	1.3	1.2	.1	.5	27	8	0	24	6.8	0		

SALUDA RIVER NEAR PELZER, S. C.

LOCATION.--At gaging station 0.4 mile downstream from Hurricane Creek and 1.9 miles north of Pelzer, Anderson County.
DRAINAGE AREA.--405 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1953 to September 1954.

Chemical analyses, in parts per million, water year October 1953 to September 1954

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 13, 1953	282	12	0.09	2.7	0.9	3.1	1.6	16	1.4	2.0	0.2	0.1	34	10	0	52	6.5	9	2	2
Nov. 15	236	14	.09	2.2	.6	4.7		16	1.6	2.0	.1	.5	34	8	0	35	6.4	12	2	2
Dec. 28	546	12	.07	2.1	.5	4.3		14	2.2	1.8	.1	.2	31	7	0	31	6.4	16	2	2
Jan. 15, 1954	477	8.5	.06	2.2	.4	3.1	1.6	12	3.2	2.0	.1	.0	30	7	0	29	6.2	4	5	2
Feb. 15	583	9.4	.04	1.4	.8	4.0		11	1.4	2.5	.2	1.1	30	7	0	45	6.3	6	3	2
Mar. 15	1,340	11	.00	2.0	.6	3.4		11	1.7	2.2	.1	1.0	31	7	0	32	6.4	8	4	2
Apr. 15	843	12	.01	2.2	.8	2.5	1.0	11	1.1	2.0	.2	.9	28	9	0	30	6.3	6	2	2
May 17	662	11	.00	2.6	.3	2.9	1.0	14	2.0	1.0	.0	1.2	30	8	0	31	6.1	3	2	2
June 15	596	13	.00	2.4	.7	2.3	1.2	12	3.0	2.0	.1	1.2	33	9	0	34	6.6	7	2	2
July 15	264	13	.01	2.7	.4	2.5	1.3	14	2.1	2.0	.1	1.2	34	9	0	36	6.6	4	2	2
Aug. 15	274	15	.00	2.2	1.0	3.1	1.1	17	.9	2.0	.1	.7	35	10	0	36	6.3	7	--	2
Sept. 15	154	17	.16	2.2	.8	5.3	1.4	24	.8	1.8	.0	.4	45	9	0	50	6.6	12	--	3

Chemical analyses, in parts per million, of samples collected intermittently

June 19, 1952	538	14	0.08	2.5	0.8	3.5		15	1.8	1.8	0.0	0.6	33	10	0	35	6.6	7		
Apr. 21, 1955	648	9.5	.10	2.0	.6	2.2	0.8	12	2.1	1.8	.1	.5	30	8	0	29	6.5	20		
Apr. 3, 1956	527	12	.01	2.5	.7	2.3	1.0	13	1.6	2.0	.0	.8	39	9	0	36	6.2	7		
Apr. 8, 1958	2,260	9.2	.08	1.6	.6	1.8	.9	8	1.8	1.5	.0	1.0	24	7	0	24	6.0	10		
Jan. 27, 1959	561	12	.03	1.6	.8	2.5	.8	14	.2	2.0	.1	.8	32	7	0	27	6.9	5		
Apr. 13, 1960	1,380	12	.02	1.8	.6	2.2	1.3	12	.9	2.3	.1	1.2	33	7	0	31	6.6	0		

SANTEE RIVER BASIN--Continued

SANTEE RIVER NEAR PINEVILLE, S. C.

LOCATION.--At gaging station 2.4 miles downstream from Lake Marion Dam, 3.0 miles upstream from Dead River, and 6.7 miles west of Pineville, Berkeley County.
DRAINAGE AREA.--14,700 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1951 to September 1952.

Chemical analyses, in parts per million, water year October 1951 to September 1952

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 18, 1951	492	12	0.05	5.2	2.0	9.3	1.7	32	7.0	7.2	0.2	0.5	64	21	0	80	6.9	33	3	3
Nov. 15	492	11	.09	4.6	1.5	10		31	6.0	5.0	.2	.6	56	18	0	76	7.2	8	5	4
Dec. 15	528	11	.09	4.0	1.9	8.5		28	5.8	4.6	.2	.3	54	18	0	78	7.1	10	5	2
Jan. 15, 1952	545	9.4	.06	3.6	1.4	6.1	1.9	21	6.5	4.1	.1	.8	46	15	0	67	6.9	8	4	3
Feb. 15	594	6.0	.05	4.2	1.6	7.6		24	6.2	4.5	.1	1.1	46	17	0	76	6.6	5	3	3
Mar. 15	12,200	8.7	.10	3.6	1.6	6.3		20	6.3	3.8	.1	.9	44	16	0	63	7.0	6	4	3
Apr. 15	1,050	8.7	.04	3.8	1.4	4.8	1.0	18	5.0	3.4	.0	.8	43	15	0	52	6.5	10	6	4
May 15	671	8.1	.10	4.6	1.6	5.6		24	5.5	3.0	.1	.5	49	18	0	61	6.5	6	4	1
June 16	671	7.0	.10	4.5	1.6	5.8		25	4.2	3.6	.0	.6	45	18	0	65	6.4	4	4	3
July 15	726	9.2	.05	4.8	1.8	6.0	.8	29	3.3	3.6	.2	.6	48	19	0	70	6.4	5	4	3
Aug. 15	545	11	.02	6.4	1.5	6.6		30	5.1	4.0	.2	.5	54	22	0	71	6.6	2	2	2
Sept. 15	528	11	.03	3.9	1.4	6.7	.9	24	4.6	3.9	.2	.8	50	16	0	66	6.3	25	4	2

Chemical analyses, in parts per million, of samples collected intermittently

May 11, 1955	528	7.9	0.00	5.0	1.4	7.6	2.0	26	7.7	4.5	0.2	1.4	51	18	0	78	6.6	15		

SOUTH TYGER RIVER NEAR WOODRUFF, S. C.

LOCATION.--At gaging station at Chesnee Shoals, 0.5 mile upstream from confluence with North Tyger River and 5-3/4 miles east of Woodruff, Spartanburg County.
DRAINAGE AREA.--174 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1952 to September 1953.

Chemical analyses, in parts per million, water year October 1952 to September 1953

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 15, 1952	96	14	0.10	2.4	1.0	4.8	1.3	20	2.1	3.2	0.1	0.9	40	10	0	47	6.5	8	3	2
Nov. 15	107	17	.08	3.8	1.4	5.4		24	2.3	2.9	.1	.7	46	15	0	53	6.8	5	2	2
Dec. 15	98	15	.04	3.2	1.2	5.2		21	2.3	2.5	.1	1.2	41	13	0	46	6.6	9	3	2
Jan. 15, 1953	170	12	.05	3.0	1.1	2.8	1.6	15	3.6	2.5	.1	1.2	38	12	0	42	6.5	4	4	2
Feb. 15	754	6.3	.04	2.4	1.0	2.6		9	3.5	2.1	.2	1.7	30	10	3	36	6.0	16	10	3
Mar. 15	234	12	.03	3.7	1.4	3.4		17	3.2	2.4	.1	1.9	37	15	1	45	6.5	5	9	4
Apr. 27	81	15	.09	3.8	1.7	3.9	1.4	24	2.3	2.9	.1	.8	42	16	0	51	6.7	4	2	2
May 15	133	13	.13	2.4	1.2	6.3		20	1.7	3.5	.1	1.7	41	11	0	47	6.8	7	--	--
June 15	224	12	.04	2.5	1.2	5.3		16	4.8	2.5	.1	1.0	37	11	0	39	6.2	7	9	2
July 15	79	12	.11	2.9	1.2	3.7	1.4	19	1.7	3.2	.1	1.0	40	12	0	55	6.4	8	3	2
Aug. 15	46	14	.02	3.7	.6	7.5		24	1.9	4.0	.0	.8	50	12	0	60	6.9	6	5	2
Sept. 15	65	6.0	.01	3.2	1.2	5.3	1.9	19	3.0	3.0	.0	1.2	36	13	0	50	6.9	5	5	2

Chemical analyses, in parts per million, of samples collected intermittently

Feb. 25, 1946	201	14	0.12	3.0	1.3	3.4		17	2.3	2.1	0.1	0.9	41	13	0	41	6.9	27		
May 17, 1949	257	12	.05	2.8	1.0	4.9		17	2.9	2.4	.1	1.3	37	11	0	40	6.8	3		
June 24, 1952	240	13	.03	2.8	1.1	4.9		18	2.3	2.6	.1	1.3	41	12	0	50	6.3	28		
May 26, 1955	408	9.9	.02	2.7	1.0	2.0	1.7	12	2.3	2.0	.2	1.4	34	11	1	37	7.1	10		
Apr. 4, 1956	99	14	.01	3.4	1.3	3.4	1.2	20	2.8	2.6	.0	.8	46	14	0	48	6.8	20		
Apr. 14, 1958	249	12	.00	3.0	1.1	2.8	1.2	16	4.0	2.5	.1	1.2	37	12	0	42	6.1	10		
Jan. 26, 1959	134	13	.01	2.9	1.2	3.4	1.3	17	1.8	2.0	.0	1.2	42	12	0	41	6.1	6		
May 16, 1960	202	16	.02	3.2	1.1	2.5	1.2	20	3.3	1.5	.0	.4	a39	12	0	42	6.6	5		

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

WATEREE RIVER NEAR CAMDEN, S. C.

LOCATION.--At gaging station at bridge on U. S. Highway 1, 1,500 feet downstream from Twentyfivemile Creek, 4,000 feet upstream from Seaboard Air Line Railroad bridge, 2.2 miles west of Camden, Kershaw County, and 7.4 miles downstream from Wateree Dam.
DRAINAGE AREA.--5,070 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1946 to September 1947.
Water temperatures: October 1946 to September 1947.
EXTREMES, 1946-47.--Dissolved solids: Maximum, 56 ppm June 11-20; minimum, 44 ppm Feb. 1-10, Sept. 1-10.
Hardness: Maximum, 21 ppm June 21-30; minimum, 15 ppm Feb. 1-19, Sept. 21-30.
Water temperatures: Maximum, 80°F Aug. 27; minimum, 37°F Feb. 26, Mar. 3, 4.
REMARKS.--Records of suspended matter of composite samples available in district office at Raleigh, N. C.

Chemical analyses, in parts per million, water year October 1946 to September 1947

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 1-10, 1946....	5,722	9.7	0.08	4.1	1.9	5.1	1.6	26	4.3	3.2	0.0	0.3	46	18	0		7.0	16	2	1
Oct. 11-20.....	6,081	9.1	.04	4.0	1.6	6.8		25	4.5	4.0	.1	.3	47	17	0		7.0	7	3	--
Oct. 21-31.....	4,796	9.0	.02	3.7	1.7	7.1		24	4.5	4.8	.1	.4	46	16	0		7.0	10	4	3
Nov. 1-10.....	4,576	12	.02	4.1	1.8	6.0		25	4.7	3.5	.1	.2	50	18	0		7.2	9	4	--
Nov. 11-20.....	4,277	9.1	.03	3.8	1.7	6.5		23	4.6	4.8	.1	.3	45	16	0		7.1	10	4	4
Nov. 21-30.....	4,810	12	.07	4.2	1.6	7.0		25	5.7	3.8	.0	.6	49	17	0		6.9	8	3	2
Dec. 1-10.....	3,193	12	.06	4.2	1.6	7.4		25	5.6	4.5	.0	.6	49	17	0		7.1	9	3	--
Dec. 11-20.....	3,706	12	.07	4.2	1.6	7.2		25	5.7	4.1	.0	.5	48	17	0		7.1	5	3	2
Dec. 21-31.....	1,953	11	.01	3.9	1.6	8.3		25	5.5	5.5	.0	.5	47	16	0		7.1	5	3	2
Jan. 1-10, 1947....	5,756	11	.01	4.1	1.7	6.1	1.6	25	5.5	4.2	.2	.3	49	17	0		7.0	7	3	3
Jan. 11-20.....	10,280	11	.03	4.2	1.9	6.6	1.5	26	5.8	4.2	.2	.3	49	18	0		7.1	8	3	2
Jan. 21-31.....	19,290	10	.04	3.8	1.6	5.2		20	5.2	3.5	.1	.4	46	16	0		6.9	16	5	3
Feb. 1-10.....	4,216	10	.04	3.6	1.5	4.9		19	5.0	3.2	.1	.4	44	15	0		7.0	22	4	3
Feb. 11-19.....	4,615	11	.02	3.6	1.5	5.8		20	5.2	3.8	.1	.4	45	15	0		7.1	26	4	3
Feb. 20-28.....	5,077	13	.09	4.4	2.0	4.9		22	6.4	3.5	.0	.4	49	19	1		7.1	17	--	--
Mar. 1-10.....	6,214	11	.03	4.0	1.7	4.3		20	5.1	3.0	.1	.2	47	17	1	58	7.2	8	--	--
Mar. 11-20.....	9,684	12	.02	3.8	1.9	6.3		21	5.0	5.5	.1	.6	48	17	0		6.9	10	5	2
Mar. 21-31.....	5,431	11	.09	3.7	1.9	5.5		20	5.6	4.0	.2	.6	48	17	1		6.8	10	--	3
Apr. 1-10.....	6,656	11	.02	3.6	1.6	4.3	.9	18	5.5	3.6	.1	.4	47	16	1		6.7	15	5	3
Apr. 11-20.....	7,684	12	.05	3.9	1.8	4.9		20	5.3	3.8	.1	.4	49	17	1		6.8	12	4	3
Apr. 21-30.....	5,688	12	.12	4.3	1.9	5.9		24	5.5	3.9	.1	.3	53	19	0		7.0	8	4	3
May 1-10.....	4,383	12	.06	4.4	2.1	5.4		25	5.1	3.6	.1	.3	54	20	0		7.1	9	4	3
May 11-20.....	2,275	12	.02	4.7	2.0	5.4		25	5.0	3.9	.1	.2	54	20	0		7.1	9	4	3
May 21-31.....	2,910	14	.08	4.4	2.2	5.3		24	5.2	3.6	.5	.1	54	20	0		7.1	10	4	4
June 1-10.....	3,212	12	.09	4.3	2.2	6.0		26	5.3	3.9	.1	.4	53	20	0		7.1	11	5	3
June 11-20.....	6,180	12	.08	4.8	2.0	6.4		27	5.6	4.0	.1	.4	56	20	0		7.1	15	3	2
June 21-30.....	3,759	11	.04	5.3	2.0	6.9		30	5.1	4.0	.2	.5	53	21	0		7.2	10	3	3

July 1-10	3,212	11	.04	5.0	1.9	5.5	1.8	27	5.0	4.0	.2	.5	52	20	0		7.3	10	3	2
July 11-20	3,386	10	.04	4.8	1.9	6.1		28	4.7	3.4	.1	.2	49	20	0		7.0	10	4	3
July 21-31	3,484	11	.02	5.0	1.9	5.8		27	4.7	3.8	.1	.4	51	20	0		7.0	10	3	2
Aug. 1-10	3,065	9.7	.01	4.0	1.6	5.7		24	4.4	3.0	.1	.4	45	17	0		6.9	24	4	3
Aug. 11-20	4,569	6.9	.05	4.6	1.9	7.2		29	4.9	3.8	.1	.5	48	19	0		--	14	2	1
Aug. 21-31	3,553	6.6	.04	4.4	1.7	6.0		24	4.6	4.2	.1	.5	46	18	0		7.1	18	2	1
Sept. 1-10	3,327	9.9	.02	4.1	1.4	6.1		24	4.6	3.0	.1	.3	44	16	0		7.1	10	3	2
Sept. 11-20	3,482	10	.02	4.2	1.6	5.3	1.6	25	4.7	3.0	.1	.2	45	17	0		7.1	6	4	2
Sept. 21-30	3,568	8.3	.16	3.8	1.4	6.0		21	6.3	2.8	.1	.3	45	15	0		6.8	14	5	5
Average	5,130	11	0.05	4.2	1.8	6.1		24	5.2	3.8	0.1	0.4	49	18	0		--	12	4	3
Chemical analyses, in parts per million, of samples collected intermittently																				
Aug. 13, 1946	5,830	7.9	0.04	4.4	1.8	6.5		25	5.8	3.4	0.1	1.1	46	18	0	--	--	7		
Dec. 14, 1949	7,300	12	.09	4.0	1.7	5.5		23	4.8	3.2	.0	.7	46	17	0	61	6.8	10		
May 12, 1950	4,460	10	.12	4.7	2.0	7.8		31	5.0	3.8	.2	.5	51	20	0	74	6.5	5		
Jan. 10, 1951	6,650	9.4	.03	3.7	1.6	6.9		22	6.1	4.2	.1	.5	47	16	0	66	7.0	5		
May 10	7,070	11	.03	4.6	2.0	7.2		26	6.6	4.5	.1	.7	52	20	0	94	7.2	7		
Jan. 11, 1952	6,820	8.1	.06	4.2	1.8	11		31	7.7	5.0	.1	.8	62	18	0	88	6.8	10		
May 14	4,630	7.8	.06	3.9	1.6	6.0		22	5.1	3.6	.1	.8	40	16	0	63	6.5	9		
Apr. 22, 1953	5,150	10	.05	4.0	1.5	7.1		23	5.0	4.2	.1	1.6	48	16	0	84	6.4	5		
May 4, 1954	5,980	9.4	.06	3.4	1.2	8.9		23	7.2	3.8	.1	1.0	49	13	0	69	6.8	18		
Apr. 1, 1955	3,990	11	.00	5.3	1.2	12	2.0	34	12	6.2	.2	1.5	68	18	0	102	6.8	15		
Mar. 16, 1956	10,200	9.3	.03	4.6	1.8	7.9	1.6	28	9.1	5.4	.0	.9	68	19	0	88	6.5	22		
May 18	2,190	7.5	.03	4.4	1.6	6.7	1.5	27	5.1	4.0	.0	1.1	54	18	0	78	7.0	27		
May 3, 1957	3,190	10	.02	3.6	1.7	5.4	1.1	21	6.2	4.5	.2	1.1	a44	16	0	65	6.4	5		
Apr. 25, 1958	12,500	9.4	.12	3.6	1.7	4.8	.9	18	7.6	2.5	.0	1.6	55	16	1	58	6.2	70		
Jan. 27, 1959	8,280	9.2	.03	4.2	1.4	8.2	1.6	24	6.1	4.7	.0	.9	58	16	0	74	6.2	22		
Feb. 10, 1960	18,500	10	.06	3.5	1.5	5.1	1.3	20	3.5	5.2	.2	.6	41	15	0	57	6.6	40		

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

WATEREE RIVER NEAR CAMDEN, S. C.--Continued

Temperature (°F) of water, water year October 1946 to September 1947

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	64	53	47	47	38	49	64	--	74	77	78
2	69	66	50	48	45	38	53	63	70	75	77	79
3	68	66	48	47	43	37	56	--	--	73	78	76
4	70	65	47	48	44	37	54	64	72	74	78	75
5	70	65	47	50	40	39	52	62	71	73	79	77
6	71	64	48	47	--	42	57	62	71	75	77	77
7	69	64	47	45	44	41	58	63	73	75	77	78
8	68	65	48	49	43	41	59	64	71	73	76	77
9	70	65	49	48	38	40	56	63	74	75	78	76
10	70	63	50	46	38	41	55	63	74	74	76	75
11	70	62	55	44	38	41	56	62	73	73	78	77
12	70	63	53	49	40	39	55	61	73	73	77	76
13	68	60	56	48	40	38	58	64	71	74	78	75
14	63	58	51	49	40	40	60	64	74	74	77	75
15	68	58	49	49	40	41	61	64	75	75	76	76
16	67	55	50	47	43	41	60	67	75	73	78	77
17	65	59	49	45	40	42	61	67	75	73	76	74
18	68	56	50	46	43	41	60	71	75	75	78	75
19	67	55	50	45	39	--	60	73	74	75	76	75
20	68	54	47	48	39	43	60	73	74	75	78	76
21	66	58	46	47	40	44	61	72	75	73	78	75
22	65	59	46	44	38	44	60	73	72	73	76	76
23	64	58	47	43	44	44	61	72	71	73	77	73
24	63	54	46	41	38	44	61	73	73	73	78	69
25	65	58	49	42	38	46	61	74	75	76	78	69
26	65	58	45	44	37	48	60	73	75	75	78	69
27	65	58	--	44	40	49	62	73	75	76	80	67
28	65	58	49	44	38	49	62	74	76	74	75	64
29	66	58	51	43	--	48	63	72	75	75	76	64
30	65	55	50	48	--	48	64	70	74	78	78	65
31	64	--	49	47	--	50	--	--	--	77	77	--
Average	67	60	49	46	41	42	58	68	73	74	77	74

WATEREE RIVER NEAR EASTOVER, S. C.

LOCATION.--At bridge on U. S. Highway 76, 400 feet downstream from Colonels Creek and 6.1 miles northeast of Eastover, Richland County.
DRAINAGE AREA.--5,540 square miles, approximately.
RECORDS AVAILABLE.--Chemical analyses: October 1957 to September 1960.

Chemical analyses, in parts per million, October 1957 to September 1960

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Oct. 16, 1957	3,590	10	0.04	5.1	1.5	11	1.5	29	9.3	3.4	0.2	1.0	78	19	0	90	6.6	15
Dec. 10	9,860	10	.00	4.0	1.0	4.5	1.6	16	5.5	4.0	.2	.8	45	14	1	63	6.2	35
Dec. 27	7,990	10	.00	4.0	1.2	5.8	1.8	19	5.3	4.0	.2	1.0	49	15	0	67	6.4	35
Jan. 15, 1958	10,400	12	.06	4.4	1.7	6.1	1.3	21	5.9	4.5	.1	2.2	59	18	1	72	6.3	80
Feb. 20	7,170	11	.05	3.2	1.9	5.4	.8	19	4.1	4.3	.0	2.4	68	16	0	65	6.2	120
Mar. 17	5,290	10	.13	3.2	1.7	6.7	1.2	19	6.1	5.0	.1	1.7	50	15	0	62	6.3	30
May 19	8,600	9.7	.07	4.4	1.9	3.8	1.0	19	6.1	1.5	.2	1.1	47	19	3	56	6.1	30
June 9	3,230	11	.08	4.2	1.6	4.6	1.8	22	3.4	3.0	.1	2.0	47	17	0	60	6.4	40
June 25	7,610	11	.04	4.1	1.4	6.1	1.9	22	4.9	3.7	.1	2.3	53	16	0	63	6.7	15
July 14	2,190	10	.06	3.0	1.6	5.1	1.5	20	4.0	3.5	.2	1.3	45	14	0	50	6.4	20
Aug. 12	2,830	14	.01	6.2	2.0	6.7	2.0	32	5.3	5.2	.1	2.0	60	24	0	84	6.7	10
Sept. 9	2,980	13	.01	5.6	2.2	7.6	2.0	33	4.9	4.7	.2	1.2	60	23	0	81	6.5	10
Nov. 3	1,250	11	.00	5.5	2.1	8.4	1.4	32	7.1	4.3	.0	.7	61	22	0	92	6.6	12
Nov. 24	2,190	9.8	.02	4.4	1.9	9.3	1.4	30	7.9	6.0	.0	.6	59	19	0	98	6.7	12
Dec. 18	3,260	9.0	.00	4.2	1.6	11	1.6	32	6.0	5.4	.0	.8	64	17	0	87	6.4	12
Jan. 15, 1959	6,620	9.1	.03	3.9	1.7	9.0	1.5	25	6.8	5.1	.0	.9	64	17	0	77	6.2	18
Feb. 19	9,360	11	.05	3.8	2.0	7.6	1.6	26	4.2	4.5	.1	1.4	60	18	0	76	6.6	10
Mar. 20	7,460	12	.06	4.5	1.9	8.0	1.2	27	5.9	6.3	.1	1.5	59	19	0	80	7.2	40
Apr. 21	9,080	11	.00	4.3	1.7	7.3	1.3	27	4.5	4.8	.1	.8	58	18	0	76	6.5	32
May 21	6,310	10	.14	4.4	1.8	7.1	.8	25	5.2	3.7	.2	.7	52	18	0	77	6.5	9
June 11	5,040	10	.00	4.6	1.9	8.1	1.7	31	7.3	5.5	.1	1.4	57	19	0	89	6.7	10
July 16	12,200	9.6	.03	3.5	1.9	6.9	1.6	25	5.1	4.2	.1	1.6	56	17	0	77	6.5	30
Aug. 11	7,910	12	.01	3.8	2.0	7.3	1.6	26	6.3	3.7	.1	.7	53	18	0	75	6.8	20
Sept. 8	10,100	11	.01	5.5	1.1	9.1	1.9	30	11	4.3	.1	.7	62	18	0	82	6.7	15
Nov. 2	8,590	11	.07	4.2	1.9	4.7	2.0	24	3.0	5.0	.1	.6	45	18	0	63	6.9	25
Dec. 1	7,010	15	.10	4.6	2.0	7.4	1.9	28	2.5	5.6	.2	.7	57	20	0	79	6.8	25
Dec. 21	11,700	11	.03	4.1	1.9	7.5	1.7	28	5.1	4.3	.1	.7	52	18	0	76	7.3	15
Jan. 28, 1960	7,180	12	.03	4.2	2.2	6.2	1.4	23	4.6	5.7	.1	.9	53	19	1	66	6.7	20
Mar. 24	13,000	20	.03	3.9	2.0	4.8	1.1	20	4.0	5.0	.0	.9	a52	18	2	62	6.6	5
Apr. 26	8,070	9.8	.01	2.8	1.6	4.4	1.3	19	3.1	2.8	.1	1.6	41	14	0	56	6.6	10

a Calculated from determined constituents.

SANTEE RIVER BASIN--Continued

WATEREE RIVER NEAR EASTOVER, S. C.--Continued

Chemical analyses, in parts per million, October 1957 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
May 17, 1960	8,240	11	0.03	4.2	1.7	6.2	1.5	25	4.3	4.5	0.1	1.1	51	17	0	73	6.9	5
June 13	1,620	9.8	.07	4.5	1.9	6.0	1.3	27	6.4	3.5	.1	.5	a47	19	0	73	7.0	10
July 21	5,450	13	.03	5.1	1.7	8.2	1.5	32	8.0	5.0	.1	.1	67	20	0	85	6.6	5
Aug. 25	8,890	12	.01	4.4	2.1	9.8	1.4	30	9.8	6.5	.2	.4	a62	20	0	88	7.1	5
Sept. 16	3,270	13	.01	4.6	1.8	8.9	1.4	28	7.4	6.0	.2	.1	58	19	0	82	7.1	5
Chemical analyses, in parts per million, of samples collected intermittently																		
May 23, 1956	3,280	8.6	0.03	5.0	1.6	7.1	1.8	26	6.5	4.0	0.1	1.7	54	19	0	93	6.7	16
June 17, 1957	5,180	10	.03	4.0	2.2	7.1	1.4	31	6.6	4.5	.3	.1	a51	19	0	78	6.4	15
Chemical analyses, in parts per million, of samples collected intermittently																		
Apr. 24, 1951	4,300	11	0.03	4.2	1.8	6.0		23	5.1	4.1	0.1	1.0	51	18	0	70	6.6	17
June 21	3,900	11	.05	4.4	1.7	7.7		26	6.0	4.4	.1	.8	51	18	0	71	6.3	11
May 14, 1952	5,120	7.8	.13	3.9	1.6	6.2		23	5.2	3.6	.1	.4	43	16	0	62	6.3	17
Apr. 22, 1953	5,480	11	.04	4.2	1.7	5.8		21	6.0	3.9	.1	1.1	50	18	0	65	6.6	9
May 5, 1954	6,410	9.8	.07	4.2	1.2	7.1		22	6.7	3.5	.0	1.2	51	15	0	67	6.8	17
Mar. 9, 1955	4,120	5.4	.01	4.0	1.7	9.1	1.9	26	9.5	5.0	.1	1.0	59	17	0	86	6.9	16
May 23, 1956	3,280	8.6	.03	5.0	1.6	7.1	1.8	26	6.5	4.0	.1	1.7	54	19	0	93	6.7	16
June 17, 1957	5,180	10	.03	4.0	2.2	7.1	1.4	31	6.6	4.5	.3	.1	a51	19	0	78	6.4	15

a Calculated from determined constituents.

KEOWEE RIVER NEAR NEWRY, S. C.

LOCATION.--At gaging station 800 feet downstream from Lawrence Bridge, 0.7 mile upstream from Sixmile Creek, and 2-1/4 miles east of Newry, Oconee County.
DRAINAGE AREA.--455 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1953 to September 1954.

Chemical analyses, in parts per million, water year October 1953 to September 1954

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed: Unfiltered	Oxygen consumed: Filtered
Oct. 14, 1953	500	13	0.05	2.2	0.7	2.8	1.1	14	1.5	1.2	0.1	0.1	30	8	0	43	6.3	9	2	2
Nov. 16	402	15	.07	2.4	.6	3.2		15	1.1	1.2	.0	.3	31	8	0	49	6.4	11	2	1
Dec. 15	2,700	8.9	.08	1.4	.4	1.4		6	1.9	.8	.0	.2	20	5	0	37	6.3	21	3	3
Jan. 16, 1954	11,100	5.7	.03	1.4	.4	1.4	.6	5	2.0	1.2	.0	.4	19	5	1	21	5.6	6	--	2
Feb. 15	978	10	.01	1.1	.5	2.6		9	.9	1.2	.1	.2	22	5	0	20	6.4	3	2	2
Mar. 15	1,590	8.0	.02	1.4	.4	1.8		7	1.2	1.0	.1	.5	20	5	0	21	5.7	18	4	2
Apr. 14	1,210	9.9	.01	1.8	.5	2.1	.7	9	.9	1.2	.2	.5	23	7	0	22	6.6	8	2	1
May 16	1,290	7.9	.00	1.4	1.1	1.2	.7	10	2.5	.8	.0	.4	25	8	0	24	6.1	3	3	2
June 16	740	11	.00	1.8	.8	1.5	.8	10	1.5	1.2	.1	.7	26	8	0	26	6.2	4	3	2
July 16	376	12	.05	2.0	.5	2.4	.7	14	1.2	1.2	.0	.4	29	7	0	30	6.3	8	--	2
Aug. 15	235	11	.04	1.8	.7	2.4	.8	14	.8	1.2	.0	.4	29	7	0	28	6.6	7	--	2
Sept. 17	203	10	.06	1.9	.9	2.5	1.1	15	.7	1.5	.0	.6	30	8	0	32	6.8	15	--	2

Chemical analyses, in parts per million, of samples collected intermittently

Aug. 14, 1946	630	12	0.09	1.9	0.8	2.5		13	1.2	1.0	0.0	0.2	28	8	0	--	--	13		
June 15, 1949	1,840	8.6	.03	1.5	.8	3.3		11	2.2	1.0	.1	.6	22	6	0	19	6.0	7		
Mar. 17, 1955	444	12	.00	2.0	1.0	2.0	0.7	15	1.8	1.5	.0	.0	30	9	0	31	6.8	3		

SAVANNAH RIVER BASIN--Continued

LITTLE RIVER NEAR MOUNT CARMEL, S. C.

LOCATION.--At gaging station 480 feet downstream from Island Ford Bridge, 2.8 miles upstream from Calhoun Creek, and 4.5 miles north of Mount Carmel, McCormick County.
DRAINAGE AREA.--217 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1953 to August 1954.

Chemical analyses, in parts per million, October 1953 to August 1954

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 11, 1953	36	19	0.18	5.5	1.5	5.5	1.8	34	2.3	3.2	0.2	0.0	60	20	0	108	6.9	10	2	2
Nov. 15	42	23	.17	5.4	1.5	7.5		34	3.5	3.0	.0	.1	62	20	0	78	6.6	13	2	2
Dec. 16	468	12	.09	3.8	.9	4.3		14	5.3	3.8	.0	.3	48	13	2	96	6.3	25	6	4
Jan. 18, 1954	1,520	9.9	.06	2.5	.7	3.1	1.8	13	4.2	2.5	.0	.8	38	9	0	54	6.1	19	8	4
Feb. 16	107	18	.03	4.2	2.3	6.6		31	3.2	3.2	.2	.6	55	20	0	72	6.8	13	3	2
Mar. 14	517	10	.00	3.6	1.4	4.7		21	3.3	2.5	.0	.9	44	15	0	50	6.5	17	9	7
Apr. 18	138	18	.04	5.6	2.4	5.2	1.6	35	2.5	3.0	.3	.5	58	24	0	75	7.0	17	3	2
May 16	119	18	.04	6.5	1.4	4.2	1.5	33	4.0	3.0	.1	1.2	58	22	0	77	7.1	17	3	2
June 13	53	22	.00	5.5	2.2	4.1	2.1	35	5.1	2.5	.1	1.1	61	23	0	74	6.7	3	4	2
July 19	32	21	.01	6.0	1.6	4.4	3.2	34	3.4	3.0	.2	.4	59	21	0	73	6.3	6	3	2
Aug. 15	16	21	.01	5.7	2.5	5.1	2.5	38	2.1	2.8	.2	.9	64	24	0	85	6.9	7	--	2
Chemical analyses, in parts per million, of samples collected intermittently																				
Aug. 15, 1946	58	20	0.03	5.2	2.4	5.8		34	2.6	3.0	0.1	0.4	59	23	0	--	--	5		
Mar. 24, 1949	194	16	.02	4.4	2.1	5.7		29	3.4	3.0	.1	.4	49	20	0	64	7.2	3		
June 14, 1950	90	22	.01	5.6	2.4	6.1		36	2.9	2.6	.2	.5	62	24	0	85	7.1	3		
Oct. 18	44	22	.20	6.0	3.1	4.6		36	3.0	3.2	.2	.2	61	28	0	75	7.1	23		
May 31, 1951	56	23	.02	6.2	2.4	5.8		37	2.7	2.9	.1	.5	83	25	0	79	6.6	4		
May 28, 1952	98	22	.16	5.6	2.3	5.5		34	2.3	2.9	.1	.8	62	23	0	74	6.4	12		
Nov. 19	48	24	.16	5.2	2.3	6.4		36	2.3	2.9	.1	.1	61	22	0	78	6.4	20		
Oct. 3, 1954	1.3	17	.01	9.1	3.2	6.7	2.7	54	1.6	3.8	.2	.6	77	36	0	105	7.2	7		2
Mar. 24, 1955	148	14	.00	5.2	2.2	5.6	1.4	32	6.1	4.0	.1	.6	60	22	0	75	7.2	7		
Mar. 28, 1956	138	19	.01	5.0	2.1	4.6	1.4	31	3.8	3.5	.1	.5	61	21	0	69	7.0	12		
Apr. 17, 1959	163	19	.04	4.9	2.1	4.8	1.3	28	7.2	2.0	.2	.5	a56	21	0	68	6.8	2		

a Calculated from determined constituents.

SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--At gaging station at New Savannah Bluff lock and dam, 0.2 mile upstream from Butler Creek and 12 miles downstream from Augusta, Richmond County.
DRAINAGE AREA.--7,508 square miles, including that of Butler Creek.
RECORDS AVAILABLE.--Chemical analyses: October 1949 to September 1950.

Chemical analyses, in parts per million, water year October 1949 to September 1950

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 15, 1949	8,510	12	0.05	3.2	1.0	3.7	0.9	17	2.6	2.1	0.1	0.3	36	12	0	40	6.4	13	4	3
Nov. 15	8,270	13	.10	3.0	1.1	4.9		18	2.8	3.2	.1	.3	36	12	0	39	6.6	8	2	2
Dec. 15	11,600	16	.03	3.2	1.4	4.8		21	2.3	2.9	.1	.3	41	14	0	48	6.7	8	3	1
Jan. 16, 1950	7,430	14	.04	3.4	1.0	4.9	1.2	20	2.4	3.0	.1	.4	40	13	0	46	6.9	6	2	2
Feb. 15	8,510	17	.15	3.6	1.5	4.9		22	2.7	3.1	.1	.4	47	15	0	51	6.8	14	3	2
Mar. 16	20,200	15	.05	3.7	1.5	5.2		23	2.8	3.1	.1	.4	45	15	0	54	6.6	7	5	2
Apr. 18	6,330	16	.03	3.1	1.2	4.4	1.0	22	2.1	2.5	.0	.1	42	13	0	46	6.8	8	2	2
May 16	6,130	13	.02	3.2	1.3	4.9		21	2.5	2.4	.1	.7	38	13	0	49	6.7	2	2	1
June 15	6,730	11	.02	2.7	1.1	3.9		16	3.3	1.9	.1	.4	34	11	0	40	6.3	3	3	2
July 17	18,800	12	.03	2.6	1.0	3.7	1.0	16	2.0	2.4	.1	.5	33	11	0	37	6.5	3	6	2
Aug. 15	3,490	14	.09	3.0	1.2	4.6		20	2.0	2.2	.2	.4	40	12	0	43	6.7	3	2	1
Sept. 15	6,830	11	.05	2.2	.7	3.7	.9	14	2.0	1.9	.1	.5	31	8	0	34	6.4	5	3	2

Chemical analyses, in parts per million, of samples collected intermittently

Mar. 2, 1949	16,700	13	0.02	3.7	1.3	3.8		20	2.4	2.4	0.1	0.5	39	15	0	46	6.7	7		
Dec. 19, 1950	6,030	12	.03	3.0	1.4	4.3		18	3.0	2.8	.1	.6	40	13	0	51	6.3	10		
June 13, 1951	7,150	13	.03	3.0	1.3	5.8		22	2.4	3.1	.0	.8	41	13	0	55	7.0	5		
Nov. 6	4,980	14	.05	3.4	1.3	5.5		22	2.4	3.0	.2	.7	42	14	0	51	6.4	15		
June 3, 1952	4,540	11	.09	3.9	1.5	6.0		26	3.1	2.4	.1	1.0	42	16	0	54	7.3	12		
Oct. 20	3,260	11	.02	3.6	1.4	5.8		25	2.8	2.4	.0	.8	40	15	0	78	6.5	12		
Nov. 10, 1953	6,530	12	.08	3.7	1.2	5.3		23	2.1	2.5	.1	1.1	41	14	0	88	6.3	16		
Mar. 22, 1955	5,930	10	.01	3.8	.7	5.4	1.4	22	4.4	3.2	.0	1.2	45	12	0	57	7.1	15		
Mar. 27, 1956	4,440	11	.05	3.4	.9	4.6	1.4	21	3.1	3.4	.1	1.1	49	12	0	54	6.6	27		
Mar. 25, 1958	12,400	11	.06	2.2	1.2	4.0	1.2	17	2.4	4.0	.0	.7	a35	11	0	42	6.4	10		
Mar. 4, 1959	6,230	13	.01	2.4	1.2	5.2	1.0	22	1.3	3.0	.1	.4	44	11	0	50	6.6	5		
May 12, 1960	15,800	11	.02	2.6	1.3	3.2	1.2	18	1.3	2.7	.2	.6	33	12	0	43	6.8	10		

a Calculated from determined constituents.

SAVANNAH RIVER BASIN--Continued

SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.

LOCATION.--Temperature recorder at gaging station on downstream side of left pier of drawspan of bridge on U. S. Highway 301, 2 miles downstream from Rocky Creek, 9 miles east of Millhaven, Screven County.
DRAINAGE AREA.--8,650 square miles, approximately.
RECORDS AVAILABLE.--Water temperatures: January 1956 to September 1960.
EXTREMES, January to September 1956.--Water temperatures: Maximum, 82°F on many days during June to September; minimum, 47°F Jan. 27-29.
EXTREMES, 1956-57.--Water temperatures: Maximum, 84°F Aug. 16; minimum, 47°F Jan. 19-21.
EXTREMES, 1957-58.--Water temperatures: Maximum, 84°F July 29, 30; minimum, 39°F Feb. 19, 20.
EXTREMES, 1958-59.--Water temperatures: Maximum, 86°F Aug. 25; minimum, 47°F Jan. 19, 20.
EXTREMES, 1959-60.--Water temperatures: Maximum, 84°F July 21; minimum, 43°F Mar. 8-8, 12.

Temperature (°F) of water, January to September 1956
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1							--	--	52	50	56	55	62	61	72	71	74	71			81	79		
2							--	--	51	50	55	55	64	62	72	71	72	70			82	79		
3							--	--	52	51	55	55	65	63	73	72	72	70			81	80		
4							--	--	53	52	58	55	66	65	72	72	72	70			80	79		
5							--	--	53	52	58	56	66	66	72	72	72	71			79	77		
6							--	--	54	52	60	57	66	65	72	71	73	71			80	78		
7							--	--	54	54	61	59	65	65	72	70	73	72			82	79		
8							--	--	54	53	62	61	65	63	72	71	74	72			82	80		
9							--	--	53	52	61	59	63	62	71	69	74	73			82	80		
10							--	--	54	52	59	58	62	61	69	67	75	73			82	81		
11							--	--	56	54	60	59	61	59	69	68	76	73			81	80		
12							--	--	56	56	60	60	59	58	71	68	77	75	a82	a77	81	80	a82	a71
13							--	--	58	54	62	60	59	58	72	70	77	75			82	80		
14							--	--	57	55	63	62	58	57	74	72	76	75			82	81		
15							--	--	57	56	63	62	61	58	75	73	76	75			82	80		
16							--	--	59	57	62	59	64	61	75	73	76	75						
17							--	--	60	59	59	58	64	63	74	72	77	75						
18							--	--	61	60	58	55	63	63	72	71	77	75						
19							--	--	61	61	55	55	63	62	73	72	78	77						
20							--	--	61	61	55	55	63	62	73	72	77	77						
21							--	--	61	60	55	53	63	62	74	73	79	77						
22							--	--	60	58	54	53	63	62	75	73	79	78						
23							--	--	58	57	57	54	63	62	74	73	79	78						
24							--	--	57	57	58	56	63	63	74	72	79	78	81	80	a82	a71		
25							--	--	58	57	58	57	64	63	72	69	79	78	81	80			74	73
26							--	--	58	57	58	57	65	63	69	66	80	78	82	80			73	70
27							47	47	57	57	61	58	67	64	69	67	82	79	82	80			70	69
28							47	47	58	57	62	61	69	67	71	68	82	81	80	79			69	68
29							49	47	58	56	63	62	71	68	71	69	81	79	80	79			69	67
30							53	49	--	--	64	63	71	70	73	70	82	77	80	79			71	69
31							53	52	--	--	63	62	--	--	75	73	--	--	80	79			--	--
Average							--	--	57	55	59	58	64	63	72	71	77	75	--	--	--	--	--	--

a No temperature record; temperatures estimated. Estimated figures not included in extremes.

SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.--Continued

Temperature (°F) of water, water year October 1956 to September 1957
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	73	71	68	67	53	52	52	51	60	59	60	58	62	61	73	72	72	71	81	79	80	78	80	78
2	74	73	69	68	53	52	52	51	60	59	59	57	63	61	72	72	73	71	81	79	81	79	81	78
3	74	74			53	53	51	50	59	59	57	57	65	63	72	68	74	73	81	80	80	78	82	79
4	75	74			54	53	50	49	60	59	57	56	66	65	68	64			81	79	81	79	62	80
5	75	74			55	54	51	50	60	60	56	54	66	66	64	63			82	80	82	80	82	80
6	75	75			56	55	52	51	60	60	54	54	66	64	63	62			81	79	81	80	81	79
7	75	74			57	56	53	52	60	60	55	54	65	63	63	62			80	78	81	79	79	77
8	75	73			58	57	53	53	60	59	55	52	63	62	63	63			82	79	80	79	77	76
9	73	72			58	58	54	53	61	59	52	51	63	62	64	63	a77	a72	83	81	80	78	76	76
10	72	71			59	56	56	54	61	60	52	50	62	62	64	63			83	82	80	78	77	76
11	71	70			58	56	56	55	61	61	53	52	62	59	65	64			83	81	80	78	78	76
12	70	68			56	56	55	53	61	57	58	53	61	59	68	65			83	81	81	79	80	78
13	68	66			57	56	55	53	57	56	58	56	61	60	70	68			83	81	81	80	80	79
14	68	68			58	57	55	55	56	55	59	58	61	60	71	70	76	74	82	81	82	80	81	79
15	69	68			59	58	55	53	56	55	61	59	61	61	73	71	77	74	82	80	83	81	81	79
16	69	68	a69	a52	60	59	53	52	55	54	61	59	62	61	73	71	79	76	82	80	84	82	81	80
17	68	68			60	60	52	51	54	54	60	59	63	62	71	69	80	78	80	79	82	81	81	80
18	69	68			60	60	51	49	54	53	61	60	64	63	70	69	61	79	79	78	81	80	80	80
19	69	68			60	59	49	47	56	54	62	61	64	64	72	70	62	80	79	78	80	79	80	79
20	69	69			59	58	47	47	57	56	63	62	65	64	74	72	81	80	78	77	79	77	80	79
21	69	68			59	58	50	47	57	55	62	61	69	65	76	73	80	79	80	77	77	76	80	78
22	69	68			59	59	53	50	55	54	61	60	71	68	75	74	80	78	81	78	77	76	81	79
23	70	69			59	58	56	53	55	54	60	59	73	71	75	72	81	76	81	79	76	75	81	79
24	70	69			60	59	56	55	56	55	59	59	74	72	72	71	81	79	82	81	76	75	81	79
25	70	69			60	57	55	54	57	56	60	58	74	73	71	71	81	78	81	80	76	75	79	77
26	69	68			57	54	54	54	59	57	61	60	74	72	73	71	79	78	80	78	78	75	77	76
27	68	67			54	53	54	54	60	59	60	58	73	71	76	72	80	78	78	76	78	76	76	74
28	68	68			53	52	55	54	60	60	58	57	74	72	76	75	80	78	76	75	76	76	74	71
29	68	67			53	52	57	55	--	--	59	58	74	72	76	74	78	77	77	74	79	77	71	70
30	67	66	a53	a52	52	51	58	57	--	--	60	59	73	72	74	73	79	78	78	76	79	78	70	69
31	67	66	--	--	51	50	59	58	--	--	62	60	--	--	73	72	--	--	79	77	79	77	--	--
Average	71	70	--	--	57	56	54	52	58	57	58	57	66	65	71	69	--	--	81	79	80	78	79	77

a No temperature record; temperatures estimated. Estimated figures not included in extremes.

SAVANNAH RIVER BASIN--Continued

SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.--Continued

Temperature (°F) of water, water year October 1957 to September 1958
(Continuous ethyl alcohol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	68	68	62	61	59	56	51	50	48	46	52	50	56	54	70	66	77	75	78	76	81	79	81	79
2	68	68	62	62	56	55	50	49	48	47	52	52	56	55	67	65	78	76	80	78	81	79	81	79
3	69	68	63	62	55	53	49	47	47	45	54	52	56	54	68	66	78	76	79	76	80	78	80	79
4	69	68	64	63	53	53	47	46	45	44	54	54	55	54	68	67	78	76	76	74	81	79	79	78
5	68	66	64	64	53	53	46	45	44	44	54	53	55	55	69	68	76	75	75	74	82	80	79	78
6	66	66	64	63	53	52	45	44	45	44	53	51	56	55	70	69	75	74	76	74	81	80	78	77
7	66	65	63	62	53	52	44	44	47	45	51	50	58	56	70	66	75	74	78	76	81	78	79	77
8	67	66	62	62	54	53	45	44	47	47	50	50	59	58	66	64	76	74	80	78	79	78	80	78
9	68	67	63	62	55	54	45	45	47	46	52	50	59	58	64	63	78	75	81	79	79	78	79	78
10	69	68	62	60	55	55	45	44	46	46	53	52	59	59	65	64	78	77	80	80	80	78	79	77
11	70	69	60	58	55	52	44	44	46	45	53	53	59	59	66	65	77	76	80	77	81	79	79	78
12	70	70	58	57	52	50	44	44	45	44	53	50	60	59	65	65	77	75	77	76	81	80	79	76
13	70	68	57	57	50	47	45	44	45	45	51	50	60	59	67	65	76	75	79	77	81	80	76	74
14	68	67	59	57	47	46	47	45	45	44	51	51	61	60	68	67	78	75	80	78	81	79	75	74
15	68	67	61	59	48	46	48	47	44	44	51	51	61	61	68	67	79	77	79	79	79	78	76	75
16	68	67	62	61	50	48	48	48	44	44	51	51	61	61	67	67	80	78	79	78	79	78	78	76
17	67	67	63	62	52	50	48	48	44	42	52	51	61	59	69	67	79	78	79	74	81	79	79	77
18	68	67	66	63	53	52	48	47	42	40	52	52	61	59	69	68	79	77	74	72	81	79	80	79
19	68	68	66	66	53	53	47	46	40	39	52	51	63	61	70	69	78	77	75	73	82	80	80	79
20	68	66	66	64	53	53	46	46	40	39	51	50	63	63	71	70	77	75	76	74	81	80	79	78
21	66	64	64	62	53	53	48	46	41	40	50	50	63	63	73	71	76	74	79	76	82	80	79	78
22	65	64	62	59	53	53	48	48	42	41	50	49	63	63	74	73	77	75	81	79	81	80	79	78
23	65	64	59	58	54	53	48	48	44	42	50	50	63	63	73	71	77	74	82	80	81	80	79	79
24	65	65	58	58	54	54	48	47	47	44	52	50	64	63	71	70	75	73	83	81	82	80	79	78
25	66	65	58	58	54	54	47	47	50	47	54	52	65	64	71	71	78	75	81	79	81	81	79	77
26	66	66	58	56	55	54	47	47	52	50	54	54	65	65	72	71	77	77	80	78	81	79	79	78
27	66	64	57	56	55	53	47	46	52	52	54	52	66	65	74	72	77	76	81	79	79	78	79	78
28	63	61	58	57	53	52	46	46	52	50	52	51	66	66	76	74	77	75	82	80	78	76	79	77
29	61	60	59	58	52	51	46	46	--	--	53	52	68	66	78	76	78	76	84	81	77	75	77	75
30	61	60	59	59	51	51	46	46	--	--	53	53	70	68	77	74	78	76	84	82	78	76	76	74
31	61	60	--	--	51	51	46	46	--	--	54	53	--	--	76	73	--	--	82	80	79	77	--	--
Average	67	66	61	60	53	52	47	46	46	44	52	51	61	60	70	69	77	76	79	77	80	79	79	77

SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.--Continued

Temperature (°F) of water, water year October 1958 to September 1959
(Continuous ethyl alcobol-actuated thermograph)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	76	75	65	65	58	57	55	54	56	54	56	54	61	61	72	71	75	74	83	81	82	81	82	81
2	76	73	66	65	57	57	55	55	54	53	56	56	61	60	73	71	76	75	84	82	83	82	83	81
3	73	70	66	65	57	57	55	54	53	51	56	55	61	61	73	71	75	73	84	81	83	82	84	82
4	70	70	65	64	58	57	54	54	51	50	56	55	61	61	74	72	73	70	81	79	83	82	83	82
5	71	70	65	65	59	58	54	52	50	50	56	55	61	61	74	73	70	65	80	79	83	81	82	82
6	71	70	65	65	59	59	52	50	50	49	56	55	63	61	75	73	65	65	80	79	83	82	82	82
7	71	70	65	65	59	58	50	49	49	49	56	53	66	63	75	73	66	65	81	79	82	80	82	82
8	72	70	65	64	58	57	50	50	51	49	53	52	68	66	75	73	69	66	81	80	81	80	82	82
9	73	71	65	64	57	56	51	50	53	51	53	52	70	68	74	73	70	68			83	81	82	81
10	74	72	66	65	56	55	51	50	54	53	55	53	70	69	74	72	70	70			83	81	81	81
11	74	73	66	64	55	52	50	50	56	55	57	55	70	69	74	73	70	70			83	81	80	80
12	74	72	66	63	52	50	50	50	56	55	57	57	69	69	75	73	70	69			83	82	80	80
13	72	71	63	62	50	50	50	50	55	54	57	56	69	65	74	74	70	69			82	81	80	79
14	71	70	64	63	50	50	50	50	54	54			65	63	75	74	70	70			81	78	79	77
15	70	69	64	63	50	50	52	50	55	54			63	62	74	73	70	70			78	78	77	75
16	71	69	67	64	50	49	53	52	58	55			63	62	73	71	72	70			78	78	76	75
17	72	70	68	67	49	48	53	50	58	58			63	63	73	71	73	72			80	78	76	74
18	72	71	69	68	48	48	50	48	59	58			64	63	74	71	72	72			82	80	75	74
19	72	71	69	68	49	48	48	47	59	58			66	64	75	72	72	72			82	80	75	74
20	71	70	69	66	51	49	48	47	58	55			68	66	75	74	73	72	a84	a77	82	81	76	74
21	70	68	66	64	51	51	52	48	55	54	a62	a55	69	68	75	74	74	72			82	80	76	75
22	68	67	64	63	52	51	54	52	54	52			69	68	75	74	77	74			82	80	77	76
23	67	66	63	62	54	52	54	52	55	53			68	66	76	74	77	76			84	81	77	76
24	69	67	62	62	55	53	52	50	57	55			66	64	77	75	78	76			84	82	78	77
25	69	67	62	62	55	54	51	50	57	56			65	64	76	74	80	78			86	83	78	77
26	69	68	62	62	54	52	53	51	56	56			67	64	75	74	80	78			85	84	78	78
27	68	68	62	62	52	52	54	53	56	56			68	66	74	74	81	79			84	82	78	78
28	68	67	62	61	53	52	54	53	56	55			68	68	74	73	82	80			83	82	80	78
29	67	66	61	60	53	53	53	53	—	--			70	68	74	72	83	81			82	81	80	78
30	66	65	60	58	54	53	54	53	--	--			72	70	74	73	83	81			81	80	78	77
31	65	65	--	--	54	54	55	54	--	--	61	60	--	--	74	73	--	--			82	80	--	--
Average	71	69	65	64	54	53	52	51	55	54	--	--	66	65	74	73	74	72	--	--	82	81	79	78

a No temperature record; temperatures estimated. Estimated figures not included in extremes.

SAVANNAH RIVER BASIN--Continued

SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.--Continued

Temperature (°F) of water, water year October 1959 to September 1960
/Continuous ethyl alcohol-actuated thermograph/

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	77	76	65	64	54	53	51	50	49	48	48	48	58	56	61	59	78	76	80	79			82	82
2	76	76	65	65	54	51	50	50	50	49	48	47	60	58	63	61	78	76	79	78	a79	a76	82	80
3	76	75	65	64	54	51	51	50	50	50	47	46	61	60	63	63	76	73	81	79			80	79
4	76	76	64	64	55	54	51	51	50	50	46	45	61	60	63	63	73	72	82	80	79	77	80	79
5	77	76	65	64	56	54	51	51	50	50	45	44	60	60	63	62	74	73	82	81	77	77	81	79
6	78	77	66	65	56	56	51	50	50	50	44	43	60	58	62	62	75	73	83	81	77	77	81	80
7	78	78	66	64	56	54	50	50	50	50	43	43	59	58	62	62	77	75	82	80	79	77	82	81
8	78	78	64	62	54	52	50	50	50	49	44	43	60	59	64	62	77	76	80	77	82	79	82	81
9	78	78	62	61	52	52	50	49	49	49	44	44	60	60	64	63	77	76	77	75	83	81	81	81
10	78	78	61	60	52	51	50	49	50	49	44	44	60	60	64	62	76	75	76	75	82	82	81	80
11	78	78	60	60	54	52	51	50	51	50	44	44	60	58	62	60	75	74	78	76	82	79	81	80
12	78	78	61	60	56	54	52	51	51	51	44	43	58	57	60	59	76	74	79	78	79	78	80	79
13	78	76	62	61	58	56	52	52	51	50	44	44	59	58	60	59	78	76	80	79	79	78	80	79
14	76	76	62	62	56	56	52	52	50	50	45	44	60	59	61	60	79	77	82	80	81	79	79	79
15	76	74	63	62	56	55	53	52	50	48	46	45	60	60	62	60	80	78	81	79	82	81	79	78
16	74	71	63	63	55	54	54	53	48	48	46	46	61	60	64	62	80	79	79	78	81	81	78	78
17	71	69	63	63	55	54	54	53	48	48	46	46	62	61	67	64	80	78	79	77	81	81	78	77
18	69	69	63	62	56	55	54	54	48	48	48	46	63	62	71	67	78	77	80	78	81	79	79	77
19	69	68	62	60	57	56	54	53	48	48	48	48	63	63	73	71	79	77	80	80	80	79	79	78
20	69	68	60	60	57	55	53	49	48	47	49	48	63	62	73	72	79	78	83	80	79	79	79	78
21	69	69	60	59	55	53	49	48	47	47	49	48	62	59	74	72	79	78	84	82	80	79	81	79
22	69	68	60	60	53	52	48	47	47	47	49	48	60	60	74	73	79	78	83	82	81	80	80	80
23	68	68	60	60	52	50	47	45	48	47	49	49	62	60	76	74	80	79	83	82	80	80	80	79
24	68	68	62	60	50	50	45	45	48	48	50	49	63	61	76	75	79	78	82	80	80	80	79	77
25	68	66	62	60	50	50	45	44	49	48	50	50	66	63	77	75	78	77	81	80	80	78	78	77
26	66	64	60	60	52	50	45	44	49	49	52	50	68	66	76	75	78	77	81	80	78	77	77	77
27	64	64	60	59	54	52	45	45	49	48	53	51	68	65	75	74	77	76	81	80	78	77	77	77
28	64	64	60	59	56	54	47	45	48	48	57	53	65	62	74	73	78	77	81	81	79	77	77	76
29	64	64	60	57	56	55	48	47	48	48	58	57	62	60	74	72	79	78	81	79	81	79	76	76
30	64	64	57	54	55	54	48	48	--	--	59	58	60	60	75	73	80	79	a79	a76	82	81	76	76
31	64	64	--	--	54	51	48	48	--	--	59	57	--	--	77	74	--	--			82	81	--	--
Average	72	72	62	61	54	53	50	49	49	49	48	47	61	60	68	67	78	76	81	79	80	79	80	79

a No temperature record; temperatures estimated. Estimated figures not included in extremes.

SAVANNAH RIVER NEAR IVA, S. C.

LOCATION.—At bridge on State Highway 184, half a mile upstream from Little Generostee Creek, 5.8 miles southwest of Iva, Anderson County.
DRAINAGE AREA.—2,231 square miles.
RECORDS AVAILABLE.—Chemical analyses: October 1951 to September 1952.

Chemical analyses, in parts per million, water year October 1951 to September 1952

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Color	Oxygen consumed	
														Calcium, magnesium	Noncarbonate				Unfiltered	Filtered
Oct. 13, 1951	1,820	11	0.02	2.8	1.0	4.8	1.0	19	2.3	3.6	0.1	0.2	40	11	0	49	6.6	13	2	2
Nov. 17	3,330	11	.02	2.2	.8	4.4		15	2.0	2.6	.1	.2	32	9	0	36	7.3	6	3	2
Dec. 15	5,160	11	.04	2.0	.9	3.9		13	2.0	2.8	.1	.4	31	9	0	38	6.5	15	3	2
Jan. 12, 1952	4,540	10	.05	1.8	.6	2.4	1.2	11	1.9	2.1	.2	.6	27	7	0	32	7.1	7	3	2
Feb. 16	5,650	9.8	.02	1.6	.7	3.4		11	2.0	1.6	.2	.6	25	7	0	28	6.4	11	2	1
Mar. 15	8,650	9.3	.01	1.5	.7	3.1		10	2.1	1.6	.1	.5	24	7	0	26	6.4	18	3	1
Apr. 12	6,050	11	.18	2.8	.8	3.2	.7	13	1.4	2.2	.1	.9	33	10	0	30	6.3	4	2	2
May 17	4,250	11	.12	2.6	.8	3.6		13	3.3	2.0	.1	.5	34	10	0	31	6.3	13	2	1
June 14	3,440	12	.10	2.3	.9	5.0		18	1.6	2.5	.0	.5	35	9	0	35	6.7	7	2	1
July 12	2,310	11	.05	2.0	.8	3.3	.8	14	1.2	2.1	.1	.5	30	8	0	35	6.2	8	3	2
Aug. 16	3,130	12	.01	2.3	.9	3.9		14	2.2	2.5	.1	.4	32	9	0	38	6.2	20	4	1
Sept. 13	2,160	11	.03	2.0	.8	3.3	.7	14	1.4	2.4	.1	.4	31	8	0	36	5.9	8	3	2

Chemical analyses, in parts per million, of samples collected intermittently

June 15, 1954	3,950	9.5	0.07	2.6	0.4	2.5	1.1	12	3.2	1.5	0.0	0.8	28	8	0	29	6.2	15		
Mar. 16, 1955	2,690	6.0	.00	1.6	1.2	4.8	1.0	17	2.9	3.5	.1	.5	37	9	0	44	6.9	6		
Apr. 30, 1956	2,550	11	.00	2.2	.8	2.8	.9	15	.8	2.0	.1	.9	29	9	0	36	6.8	5		
May 24, 1957	3,180	12	.02	2.0	.8	4.7	1.1	15	3.5	3.5	.0	.7	49	8	0	39	6.0	10		
Apr. 24, 1958	6,520	10	.00	2.0	1.0	2.8	.8	13	3.2	2.0	.1	.9	30	9	0	35	6.1	10		
May 14, 1959	3,830	12	.06	1.8	.7	5.0	1.0	19	2.0	2.4	.2	.0	a34	7	0	42	6.2	2		
June 27, 1960	4,500	12	.04	2.2	.8	3.7	1.0	18	1.4	1.5	.0	.0	28	8	0	39	6.4	8		

a Calculated from determined constituents.

WACCAMAW RIVER BASIN

WACCAMAW RIVER AT FREELAND, N. C.

LOCATION.--At gaging station on left bank 150 feet downstream from New Britton Bridge on State Highway 130, 1.0 mile southwest of Freeland, Brunswick County, and 7.0 miles downstream from Juniper Creek.
DRAINAGE AREA.--626 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1950 to September 1951, October 1956 to September 1960.

Chemical analyses, in parts per million, water year October 1959 to September 1960

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Sum of mineral constituents	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Oct. 14, 1959.....	950	8.9	0.77	3.6	1.2	5.2	1.0	6	5.3	8.5	0.2	0.4	96	38	14	9	52	5.2	240
Nov. 14.....	1,250	7.4	.46	4.0	.7	4.5	1.6	5	1.3	9.0	.3	2.2	76	33	13	9	50	5.2	210
Dec. 14.....	502	4.6	.19	2.6	1.0	4.4	.9	6	1.8	9.0	.1	.1	75	28	10	5	49	5.4	140
Jan. 15, 1960.....	1,780	3.0	.13	2.1	1.1	4.0	.7	5	4.0	8.0	.1	.1	56	25	10	6	43	5.5	100
Feb. 15.....	2,040	2.0	.11	2.9	.7	4.4	.8	5	2.5	8.2	.1	.4	50	24	10	6	44	5.8	120
Mar. 15.....	2,320	1.1	.02	2.3	.3	2.9	.3	5	1.1	5.3	.0	.1	43	15	8	4	38	5.6	100
Apr. 15.....	2,120	1.4	.01	2.2	.6	3.4	.2	4	.3	5.8	.2	.3	60	16	8	4	38	5.4	140
May 14.....	349	3.1	.07	3.0	.6	3.7	.8	6	1.4	6.4	.1	2.4	72	25	10	5	44	5.7	180
June 14.....	31	3.0	.07	4.6	.6	3.9	.8	9	4.3	7.0	.0	.3	58	29	14	6	50	6.5	120
Aug. 1.....	6,500	3.2	.07	2.0	.4	1.8	.4	2	3.4	3.2	.2	.2	55	16	6	5	30	4.8	140
Aug. 30.....	790	7.3	.78	3.0	1.3	3.7	1.4	8	1.6	6.5	.2	1.7	--	31	12	6	51	5.7	240
Sept. 1.....	615	7.3	.43	3.2	1.5	3.8	1.0	7	2.1	8.5	.3	.4	72	32	14	8	46	5.4	210

Chemical analyses, in parts per million, October 1945 to September 1960

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
BAILEY CREEK AT ANDERSON																		
Feb. 13, 1951.....		16	0.06	2.2	0.8	8.5		21	5.0	2.5	0.1	1.4	47	9	0	53	6.6	6
BIG BLACK CREEK NEAR McBEE																		
Nov. 2, 1955.....	86.0	7.3	0.10	0.7	0.4	1.8	0.4	6	0.8	2.0	0.0	0.3	28	3	0	20	5.5	37
June 18, 1957.....	93.6	6.3	.19	.8	.4	1.9	.21	3	.0	2.7	.1	.9	26	4	1	21	5.2	40
May 20, 1958.....	151	5.4	.23	1.2	.4	1.6	.2	4	.5	2.8	.1	.9	a35	5	1	24	5.2	100
Apr. 17, 1959.....	303	4.0	.00	.8	.2	2.2	.4	2	2.4	2.8	.2	.3	30	3	1	25	5.0	70
Feb. 25, 1960.....	396	3.3	.08	.6	.2	1.7	.5	2	1.0	2.5	.1	.6	b21	2	1	19	5.3	40
BIG BROWNS CREEK AT UNION																		
Mar. 8, 1951.....		20	0.25	3.8	1.5	6.3		27	1.6	3.2	0.2	0.6	51	16	0	59	6.4	27
BIG CREEK AT WILLIAMSTON																		
May 25, 1955.....		12	0.04	2.6	1.2	2.1	1.8	12	4.1	2.5	0.1	2.5	37	11	2	41	6.7	7
BIG GENEROSTEE CREEK NEAR STARR																		
May 31, 1951.....	40.8	17	0.02	4.3	1.5	15		32	3.6	7.2	2.3	3.4	72	17	0	97	6.4	3
Oct. 5.....	26.1	17	.04	4.1	1.5	17		40	3.1	6.9	1.4	5.0	78	16	0	114	7.2	7
May 28, 1952.....	62.3	16	.14	3.2	1.4	11		25	3.3	5.9	1.0	3.6	58	14	0	81	7.2	7
May 23, 1957.....	51.5	16	.07	3.2	1.0	4.8	2.0	18	1.8	4.5	.2	3.7	50	12	0	61	6.0	5
Apr. 24, 1958.....	150	13	.06	4.0	1.0	4.2	1.5	17	2.5	5.0	.4	2.6	42	14	0	57	6.0	20
May 8, 1959.....	50.6	16	.00	3.8	1.3	7.0	2.0	20	1.9	6.9	1.5	2.5	57	15	0	73	6.3	3
Apr. 27, 1960.....	98.9	15	.03	3.7	1.3	5.0	1.9	21	3.1	4.5	.3	1.1	49	14	0	61	6.5	5
BLACK CREEK AT PAGELAND																		
Nov. 12, 1955.....		4.9	0.68	2.0	0.5	5.1	1.4	12	2.9	6.5	0.0	1.6	49	7	0	50	6.2	100
BLACK MINGO CREEK AT NESMITH																		
Sept. 27, 1946.....	8.56	11	0.12	14	1.5	5.5	1.4	46	3.9	7.4	0.0	0.2	91	41	3		6.4	85
May 26, 1959.....	16.4	10	.22	15	1.7	4.9	.8	46	3.9	6.9	.1	.4	92	43	6	108	6.9	100

a Organic matter present; sum of mineral constituents 15 parts per million.
b Organic matter present; sum of mineral constituents 12 parts per million.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
BLACK RIVER AT ANDREWS																		
Jan. 18, 1955.....		14	0.19	15	2.4	11	1.0	17	38	12	0.0	0.6	138	48	34	183	6.2	90
BLACK RIVER AT KINGSTREE																		
Mar. 11, 1948.....	c1,090	1.7	0.02	2.5	1.1	4.2		9	2.1	7.2	0.0	0.3	d55	11	3	--	6.0	140
Apr. 9, 1952.....	c1,940	4.0	.15	3.2	1.0	5.3		10	3.3	8.2	.0	.6	e62	12	4	58	5.7	110
Nov. 19.....	c258	14	.08	3.2	.9	5.1		8	3.5	8.8	.0	.2	89	12	5	54	6.3	90
June 25, 1953.....	c108	11	.08	6.5	1.6	7.4		7	23	6.2	.0	.6	83	23	17	100	5.6	33
June 16, 1958.....	c263	9.5	.06	4.0	.7	5.0	1.7	12	3.0	7.5	.2	.6	f67	13	3	54	5.8	120
BROAD RIVER AT EAU CLAIRE																		
Apr. 6, 1953.....		13	0.04	3.8	1.1	12		34	4.1	4.0	0.2	1.0	63	14	0	82	7.1	12
BROAD RIVER AT UNION																		
Mar. 8, 1951.....		15	0.04	4.6	1.5	5.3		25	3.1	3.2	0.1	0.9	46	16	0	61	6.7	16
BROADWAY CREEK NEAR ANDERSON																		
Oct. 27, 1948.....	12.5	15	0.03	2.8	1.2	5.9		21	2.0	3.0	0.0	1.6	43	7	0	50	6.6	3
BUCK CREEK NEAR MAYO																		
Nov. 29, 1949.....	47.8	10	0.01	2.2	1.4	2.0		12	2.1	2.0	0.0	0.9	27	11	1	36	6.7	5
BULLOCK CREEK NEAR SHARON																		
Nov. 7, 1947.....	75.8	17	0.03	5.8	2.3	5.6		32	5.2	3.1	0.0	0.2	57	24	0	--	6.9	6
Feb. 15, 1949.....	75.5	19	.03	5.9	2.3	6.3		34	4.9	3.2	.1	.2	62	24	0	77	6.8	6
Nov. 28.....	44.8	23	.04	7.1	3.2	5.5		39	5.0	3.6	.1	.3	66	31	0	88	6.6	7
Feb. 9, 1950.....	82.9	20	.03	7.8	2.9	6.0		41	5.1	3.6	.0	.3	66	31	0	93	7.0	12
Mar. 27.....	66.7	22	.25	6.6	2.6	7.0		39	4.5	3.6	.1	.5	67	27	0	85	6.9	11
May 5.....	50.4	23	.11	6.8	2.4	7.0		40	4.4	3.0	.1	.2	66	27	0	96	6.5	4
Nov. 16.....	20.2	26	.24	7.8	3.8	4.9		43	4.2	3.6	.2	.2	73	35	0	94	7.2	5
Feb. 6, 1951.....	39.9	22	.03	7.4	2.8	7.8		43	5.3	4.0	.0	.1	71	30	0	97	6.5	6
May 8.....	30.3	22	.03	7.2	2.8	8.3		46	3.9	3.2	.1	.3	71	29	0	96	6.8	14
Oct. 15.....	9.55	23	.02	7.1	2.7	7.3		43	3.1	3.8	.2	.3	69	29	0	91	6.6	6
Apr. 22, 1952.....	43.0	22	.26	8.9	2.3	6.0		37	4.0	3.2	.1	.5	70	27	0	83	6.6	8
Oct. 15.....	12.5	24	.04	6.8	2.4	7.1		40	3.7	3.5	.1	.5	68	27	0	86	6.5	8
Apr. 16, 1953.....	49.8	16	.04	6.5	2.5	7.6		40	4.1	3.8	.1	.4	67	26	0	84	6.6	7

June 12	40.5	20	.03	6.0	1.7	6.4		34	3.2	2.8	.1	.7	60	22	0	77	6.5	13
Oct. 2	10.5	16	.13	7.2	2.3	8.5		43	5.5	3.2	.1	.1	69	27	0	93	6.8	9
Mar. 17, 1954	74.3	18	.08	5.2	1.4	9.4		28	8.7	4.5	.1	.6	62	19	0	103	8.6	11
June 24	16.0	21	.00	5.9	1.1	8.3		33	4.8	2.8	.2	.8	65	19	0	78	6.6	4
May 23, 1957	29.8	22	.34	8.0	2.2	5.4	1.5	40	4.7	3.5	.0	.9	79	29	0	90	6.4	40
May 6, 1960	57.3	23	.03	6.4	2.3	5.5	1.0	38	2.5	3.5	.1	.5	66	26	0	81	7.2	5
BUSH RIVER AT NEWBERRY																		
Feb. 21, 1951		26	0.02	7.5	3.3	8.9		47	3.8	6.0	0.1	0.5	80	32	0	106	8.8	40
CAMPBELL LIMESTONE QUARRY POND AT GAFFNEY																		
Sept. 11, 1956		11	0.00	36	12	3.6	2.4	152	20	2.0	0.1	0.4	167	139	15	272	7.3	0
CANE CREEK NEAR WEST UNION																		
June 13, 1950	67.8	13	0.10	2.4	1.0	3.4		16	1.5	1.5	0.2	0.4	32	10	0	33	6.3	4
Oct. 4, 1951	24.2	15	.03	1.8	1.1	4.4		17	1.5	1.8	.0	.6	35	9	0	38	7.4	17
May 21, 1952	56.4	14	.08	2.3	1.1	1.9		12	1.7	1.8	.0	.4	33	10	0	34	6.6	7
May 23, 1957	42.9	15	.12	1.6	1.2	2.7	1.2	15	2.1	1.8	.0	.5	36	9	0	34	6.1	10
Apr. 26, 1960	71.6	14	.02	1.8	1.1	2.1	.8	16	1.4	1.8	.1	.5	g32	9	0	31	6.8	5
CANE SAVANNAH CREEK NEAR SUMTER																		
Aug. 10, 1951	10.0	13	0.26	1.7	0.7	5.0		9	3.8	4.5	0.0	0.4	53	7	0	34	5.4	90
CANNONS CREEK NEAR POMARIA																		
May 10, 1950	17.8	32	0.06	6.6	3.2	8.4		45	2.6	5.5	0.1	0.4	83	30	0	98	6.8	3
CATAWBA RIVER AT FORT MILL																		
May 16, 1956	c2,230	9.7	0.06	4.4	0.7	4.7	1.6	20	6.0	3.0	0.0	1.2	48	14	0	68	6.7	20
CATAWBA RIVER NEAR CATAWBA																		
May 23, 1960	1,030	14	0.03	5.2	2.8	7.2	1.5	32	11	4.0	0.0	0.1	67	24	0	90	6.3	5
CEDAR CREEK AT SOCIETY HILL																		
May 31, 1949	58.6	3.7	0.03	0.3	0.1	4.6		5	2.6	2.9	0.0	0.3	19	1	0	16	5.6	18
Nov. 28	99.1	7.6	0.02	.9	.8	2.2		4	2.2	3.2	.0	.2	29	6	2	20	5.6	32
Feb. 27, 1950	68.0	4.5	.06	.7	.4	3.3		6	1.4	2.8	.0	.3	19	3	0	17	5.0	20
Apr. 25	48.4	6.3	.04	1.2	.5	2.8		7	1.3	2.5	.1	.3	20	5	0	19	5.5	7
June 1	82.1	6.5	.07	1.2	.4	2.5		4	2.1	2.8	.1	.4	24	5	1	20	5.2	14
June 26	23.2	4.4	.07	.7	.2	2.8		3	1.2	3.0	.0	.9	20	3	0	20	6.0	9
Nov. 22	56.9	7.5	.03	.7	.8	1.8		3	2.1	2.9	.0	.3	23	5	3	18	6.1	17

c Daily mean discharge.
d Organic matter present; sum of mineral constituents 24 parts per million.
e Organic matter present; sum of mineral constituents 31 parts per million.
f Organic matter present; sum of mineral constituents 38 parts per million.
g Calculated from determined constituents.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
CEDAR CREEK AT SOCIETY HILL--Continued																		
May 11, 1951	34.8	4.7	0.02	0.9	0.3	2.1		3	1.2	2.8	0.1	0.3	17	4	1	19	6.2	25
Sept. 12	27.5	10	.03	1.2	.6	1.6		2	2.6	3.0	.0	.3	31	5	4	25	5.5	17
May 27, 1952	27.1	6.4	.05	1.2	.4	1.4		2	1.6	2.9	.0	.3	23	5	3	19	5.1	27
Apr. 24, 1953	63.7	2.8	.07	1.6	.4	1.5		3	1.6	3.2	.0	.5	23	6	3	18	5.5	19
June 23	40.8	5.4	.03	1.0	.5	8.3		19	1.2	3.5	.0	.8	30	4	0	24	5.2	40
Oct. 29	23.3	6.8	.07	1.0	.3	2.5		4	1.6	2.8	.1	.1	22	4	0	21	5.7	17
Apr. 29, 1954	67.8	4.3	.11	1.3	.1	1.6		1	1.6	3.2	.0	.3	b23	4	3	21	5.5	50
May 26, 1955	32.9	3.8	.30	.7	.3	2.4	0.1	3	1.6	3.0	.0	1.4	21	3	1	17	5.5	42
June 20, 1957	43.2	4.9	.47	.4	.2	2.8	1.8	4	.9	3.3	.0	1.3	28	2	0	19	5.1	50
May 21, 1958	79.3	5.8	.17	.8	.7	1.4	.1	2	3.1	2.5	.1	.6	i31	7	5	23	5.0	70
May 18, 1959	56.9	4.6	.21	.7	.5	1.0	.3	4	.3	2.1	.1	.7	24	4	1	18	5.4	60
May 16, 1960	89.1	4.4	.12	1.1	.1	1.8	.5	3	.4	2.7	.1	.2	b27	3	1	20	5.4	35
CHAUGA RIVER NEAR WESTMINISTER																		
Mar. 16, 1955	99.2	11	0.00	2.1	1.3	2.1	0.8	16	1.6	2.0	0.0	0.2	30	11	0	32	6.9	5
May 25	173	11	.06	2.9	.9	2.1	1.0	16	1.7	1.0	.1	.8	29	11	0	28	7.2	17
Nov. 3	52.4	13	.07	2.6	.9	2.2	1.0	18	.9	1.0	.0	.4	32	10	0	35	6.5	16
May 29, 1956	90.1	12	.07	2.1	.8	2.3	.9	16	.6	.5	.0	.4	g28	8	0	30	6.7	12
Sept. 19	39.7	11	.08	2.4	1.0	2.3	.8	18	1.6	.5	.0	.5	32	10	0	31	6.5	30
May 23, 1957	119	13	.36	2.8	.1	2.1	.9	13	.4	2.0	.0	.3	31	8	0	25	6.6	10
Apr. 24, 1958	197	12	.01	2.6	.5	1.4	.4	13	.6	1.0	.0	.1	28	8	0	24	6.3	10
May 14, 1959	112	12	.01	2.3	.5	2.0	.7	15	.9	1.1	.0	.2	28	8	0	28	6.5	4
Apr. 26, 1960	192	13	.03	2.2	.6	1.8	.7	14	1.0	1.0	.1	.2	28	8	0	27	7.0	5
CHEROKEE CREEK NEAR GAFFNEY																		
Feb. 14, 1951		11	0.07	2.4	1.2	4.1		15	2.4	3.0	0.0	1.0	33	11	0	42	6.0	7
Apr. 11, 1957	20.3	11	.07	2.7	.8	2.2	1.2	12	1.2	2.4	.1	1.0	29	10	0	38	6.2	5
CLARK HILL RESERVOIR NEAR McCORMICK																		
Mar. 13, 1957		19	0.07	5.1	1.2	7.2	1.6	32	5.2	5.3	0.1	0.8	65	19	0	78	6.8	12
CONGAREE CREEK AT CAYCE																		
Mar. 30, 1949	252	2.5	0.04	1.6	0.5	2.1		7	1.9	2.0	0.0	0.2	17	6	0	13	5.6	23
Nov. 23	242	6.5	.02	1.0	.8	1.4		5	1.4	2.2	.0	.2	20	6	2	13	5.9	10
Apr. 24, 1950	199	3.3	.02	1.1	.3	2.0		5	.9	2.0	.1	.3	14	4	0	12	5.7	12
Jan. 26, 1951	216	4.8	.04	.6	.2	1.9		30	.9	1.9	.1	.2	16	2	0	13	--	7
May 17	162	3.5	.03	1.1	.4	1.7		4	1.0	2.2	.1	.6	13	4	1	17	7.5	14
Sept. 12	149	4.9	.04	1.0	.4	1.3		3	.9	2.2	.1	.3	14	4	2	15	7.1	9
Apr. 16, 1952	198	3.1	.08	.8	.3	1.2		2	1.1	1.9	.0	.4	14	3	2	16	5.5	17

June 25	145	3.2	.07	1.6	.5	1.1		3	1.0	2.8	.1	.8	17	6	4	26	5.2	100
Apr. 2, 1953	142	3.9	.10	1.4	.3	1.9		4	1.9	2.2	.1	.3	17	5	1	18	5.4	20
June 17	147	4.4	.03	1.0	.3	1.7		3	.9	2.5	.0	.6	22	4	1	17	5.6	9
Sept. 24	129	5.3	.15	.9	.2	1.4		3	.4	2.2	.0	.2	15	3	1	21	5.7	10
May 12, 1954	136	4.1	.03	.8	.1	2.2		2	1.8	2.2	.1	.5	15	2	1	14	5.5	8
May 10, 1955	73.2	.5	.18	1.0	.4	0.9	0.0	4	.7	1.5	.0	.0	15	4	1	13	5.9	35
June 17	90.0	4.0	.16	.5	.4	1.3	.1	3	1.2	1.8	.0	1.0	18	3	1	14	5.5	22
Nov. 3	113	5.5	.07	.6	.6	1.0	.2	4	.1	2.0	.0	.7	13	4	1	14	5.6	20
May 17, 1957	116	4.2	.12	1.0	.1	1.1	.2	3	.7	2.5	.2	.9	18	3	1	17	5.4	15
June 17	103	3.5	.06	.8	.2	1.2	.1	3	1.1	2.5	.2	.5	g11	3	1	16	5.2	15
June 10, 1958	141	3.8	.01	1.0	.4	1.0	.4	4	.4	2.5	.0	.8	15	4	1	13	5.8	20
May 29, 1959	176	3.8	.11	.8	.4	1.2	.2	4	.3	1.7	.1	.4	15	4	0	13	5.7	25
Apr. 25, 1960	c330	1.9	.23	.6	.4	1.2	.6	4	.2	2.0	.1	.3	j19	3	0	17	5.6	60
CONGAREE CREEK NEAR CAYCE																		
Aug. 20, 1953	179	9.7	0.08	1.4	0.9	18		12	2.7	23	0.0	0.4	65	7	0	105	6.5	20
CONGAREE RIVER AT COLUMBIA																		
Feb. 3, 1956		9.4	0.00	3.9	1.4	9.2	1.8	32	5.0	5.5	0.4	0.4	55	16	0	83	7.1	10
CONNEROSS CREEK AT RICHLAND																		
Dec. 1, 1949	70.5	14	0.02	2.7	1.2	4.1		17	2.9	2.4	0.0	0.4	36	12	0	42	6.7	4
May 12, 1950	53.2	14	.05	2.8	1.2	5.3		19	4.0	2.1	.0	.9	40	12	0	50	6.2	4
Nov. 16	50.2	15	.10	3.1	1.4	3.9		17	3.7	2.1	.1	1.2	40	14	0	45	7.1	5
May 17, 1951	48.8	15	.03	2.8	1.2	5.6		20	3.2	2.8	.0	.5	41	12	0	46	6.9	3
Oct. 11	27.1	16	.10	2.8	1.3	7.5		22	4.1	3.9	.1	.8	48	12	0	58	7.4	6
May 22, 1952	57.5	15	.08	2.2	1.0	5.3		18	1.6	3.0	.0	.7	38	10	0	45	6.5	3
Apr. 4, 1956	50.2	14	.03	3.0	1.1	4.8	1.1	21	.8	3.8	.1	.9	45	12	0	51	6.5	18
May 29	42.6	14	.17	2.8	1.0	5.2	1.5	20	1.0	4.0	--	1.4	42	11	0	56	6.6	20
May 23, 1957	46.9	15	.17	3.2	.7	5.5	1.2	20	2.6	4.3	.0	2.3	51	11	0	52	6.0	20
Apr. 24, 1958	92.0	14	.01	2.6	1.4	3.4	.5	16	2.5	3.0	.1	1.0	38	12	0	40	6.3	10
May 14, 1959	54.4	15	.06	2.8	1.0	5.4	1.1	20	1.4	4.5	.1	.6	g42	11	0	52	6.4	5
Apr. 26, 1960	82.1	15	.02	2.4	.9	4.1	1.0	17	1.8	3.2	.1	.6	41	10	0	46	6.7	5
COOSAWHATCHIE RIVER NEAR HAMPTON																		
Feb. 27, 1946	361	5.4	0.05	6.0	1.4	5		18	1.7	3.2	0.0	0.1	55	21	6	56	6.6	80
Mar. 16, 1949	350	5.6	.09	5.6	1.2	3.0		20	1.7	5.1	.0	.2	45	19	2	51	6.6	55
Apr. 30, 1951	97	10	.20	8.6	1.2	7.8		34	1.4	6.4	.0	.1	72	26	0	81	6.3	100
May 12, 1955	c2.0	10	.46	15	1.3	6.6	1.6	53	1.9	7.5	.0	.8	100	43	Q	118	6.6	110
Apr. 28, 1958	c209	6.7	.43	8.0	1.9	4.8	.7	25	3.7	6.5	.2	1.7	75	28	8	75	6.0	140
CORONACA CREEK NEAR GREENWOOD																		
Oct. 27, 1948	8.84	25	0.02	6.0	2.6	8.0		40	4.3	3.8	0.0	0.4	73	26	0	85	6.8	6
CORONACA CREEK NEAR NINETY SIX																		
Dec. 10, 1958	6.19	21	0.01	7.2	2.4	8.9	2.1	46	1.7	5.0	0.0	1.7	80	28	0	94	6.3	10

b Organic matter present; sum of mineral constituents 12 parts per million.
c Daily mean discharge.
g Calculated from determined constituents.
h Organic matter present; sum of mineral constituents 13 parts per million.
i Organic matter present; sum of mineral constituents 16 parts per million.
j Organic matter present; sum of mineral constituents 10 parts per million.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
DUNCAN CREEK AT BATESBURG																		
Jan. 27, 1955.....		0.0	0.02	4.4	1.8	7.8	3.1	11	11	10	0.1	4.6	63	18	9	95	6.2	10
DUNCAN CREEK AT CLINTON																		
Dec. 20, 1951.....		23	0.05	4.1	1.5	6.0		25	3.0	3.4	0.2	0.5	57	16	0	61	7.1	9
May 14, 1959.....		22	.06	4.0	1.1	4.4	1.8	26	1.5	2.0	.0	.9	57	15	0	51	6.6	20
EDISTO RIVER AT CANADYS																		
Dec. 14, 1950.....	1,690	7.8	0.08	2.6	0.7	2.6		7	2.1	4.8	0.0	0.3	36	9	4	35	5.9	27
EDISTO RIVER AT CHARLESTON																		
Apr. 26, 1951.....		5.1	0.22	6.8	0.8	4.1		23	1.8	5.6	0.0	0.6	46	20	1	60	6.1	54
EDISTO RIVER AT SUMMERVILLE																		
Jan. 18, 1955.....		6.8	0.16	4.6	0.3	4.3	0.6	8	9.2	4.8	0.1	0.1	57	13	6	52	6.0	65
EDISTO RIVER NEAR GIVHANS																		
Mar. 11, 1946.....	c2,600	1.5	0.23	5.1	1.0	3.8		18	2.7	5.2	0.0	0.2	47	17	2	--	7.2	92
Feb. 16, 1949.....	c7,690	4.0	.12	3.7	1.2	2.3		14	1.7	4.1	.0	.2	d42	14	3	38	6.1	70
June 3, 1954.....	c814	7.3	.18	3.2	.5	2.7	0.4	12	1.6	4.2	.0	.6	32	10	0	39	6.3	20
May 10, 1955.....	c705	2.7	.37	4.0	.5	3.5	.6	12	2.2	4.8	.0	.9	k46	12	2	48	6.4	80
Apr. 11, 1956.....	c2,130	3.0	.27	5.6	.2	3.4	.3	17	.8	6.0	.0	.8	L52	15	1	54	6.2	100
Apr. 16, 1957.....	c1,980	4.6	.26	5.9	.2	3.7	.4	16	1.5	5.9	.0	1.7	m59	16	2	55	6.2	110
May 14, 1958.....	c4,750	6.2	.40	5.6	1.0	3.0	.6	15	3.6	4.8	.1	1.5	n62	18	6	50	5.9	140
Jan. 29, 1959.....	c1,530	6.5	.11	4.0	.4	3.4	.6	7	4.4	4.8	.0	.9	L58	12	6	42	5.7	60
June 15, 1960.....	c1,700	6.2	.12	3.0	.5	2.7	.6	11	1.3	4.0	.0	.2	37	10	0	33	6.2	50
EIGHTEENMILE CREEK AT CENTRAL																		
Apr. 5, 1956.....		15	0.13	4.4	0.7	5.7	1.8	21	3.4	3.2	0.1	1.6	55	14	0	64	7.0	20
EIGHTEENMILE CREEK AT LIBERTY																		
May 27, 1955.....		14	0.00	5.1	1.4	4.4	2.0	23	5.1	2.8	0.1	2.2	48	19	0	76	7.5	17
EIGHTEENMILE CREEK AT PENDLETON																		
Oct. 6, 1947.....	18.9	16	0.02	2.6	0.8	4.8		19	1.0	2.2	0.0	0.6	40	10	0		6.9	3

ENOREE RIVER AT WHITMIRE																		
Jan. 28, 1955.....		16	0.00	2.8	1.5	13	1.8	36	7.3	4.0	0.0	1.3	66	13	0	91	7.0	20
ENOREE RIVER NEAR CLINTON																		
May 14, 1959.....		15	0.01	3.2	0.8	12	1.9	37	4.6	4.0	0.0	1.3	66	11	0	79	6.7	10
FAIRFOREST CREEK NEAR UNION																		
Sept. 24, 1946.....	c421	12	0.04	3.8	1.9	4.4		22	3.9	2.6	0.2	0.7	47	17	0	--	6.5	18
May 25, 1954.....	c83	20	.03	7.0	2.5	6.7	2.0	30	6.5	4.8	2.0	4.3	71	27	3	96	6.7	5
May 24, 1955.....	c416	13	.05	5.6	2.2	4.8	2.3	24	6.3	3.5	.9	2.0	60	23	3	71	7.0	12
Apr. 17, 1957.....	c121	18	.04	8.0	1.7	6.3	1.2	32	1.5	6.2	1.0	3.7	72	27	1	95	6.2	10
FIRST BRANCH AT JOHNSTON																		
Jan. 16, 1956.....		3.2	0.30	6.9	0.5	10	3.7	28	3.4	14	0.1	0.4	65	19	0	106	6.6	23
FISHING CREEK NEAR FORT LAWN																		
Jan. 16, 1950.....	145	23	0.12	10	5.2	12		63	8.1	8.4	0.2	0.4	99	46	0	167	7.0	4
Apr. 21, 1952.....	104	19	.09	7.4	3.5	9.5		51	4.5	4.6	.1	.2	76	33	0	108	6.4	3
May 22, 1958.....	144	23	.02	7.6	4.1	5.2	1.3	45	6.6	4.7	.3	.8	79	36	0	112	7.1	20
May 4, 1959.....	106	23	.00	8.2	3.7	11	1.5	60	4.3	6.3	.3	.2	g88	36	0	124	6.7	4
May 6, 1960.....	135	23	.02	8.3	4.0	8.8	1.5	54	2.6	9.0	.2	.5	85	37	0	121	7.0	5
GILLS CREEK NEAR COLUMBIA																		
June 7, 1949.....	38.4	3.5	0.02	2.4	0.9	4.4		6	4.2	5.8	0.2	1.7	36	10	5	46	5.8	8
June 14, 1950.....	35.9	4.3	.23	2.5	.9	5.2		9	4.7	5.0	.1	2.2	35	10	3	47	5.7	25
Jan. 26, 1951.....	67.7	5.7	.07	2.7	.8	4.6		5	4.3	6.5	.1	2.4	42	10	6	52	5.6	7
Apr. 16, 1952.....	55.8	5.2	.12	3.0	1.1	4.8		2	7.4	6.5	.0	4.8	50	12	10	62	5.3	12
Apr. 2, 1953.....	30.8	5.6	.15	4.2	1.6	5.5		2	7.9	10	.1	6.0	63	17	15	88	5.0	20
June 17.....	44.3	3.2	.02	4.6	2.2	17		29	7.9	18	.1	.2	76	21	0	144	6.1	15
May 4, 1954.....	55.1	2.6	.07	3.9	.7	6.0		0	8.2	7.2	.0	8.7	51	13	13	75	4.7	16
June 21.....	18.2	4.9	.02	5.1	2.6	12		0	7.3	24	.1	13	91	26	26	141	4.1	7
May 10, 1955.....	12.3	7.9	.06	8.4	3.3	26	5.4	40	18	36	.9	.9	133	32	2	253	6.3	25
GROVE CREEK NEAR PIEDMONT																		
Oct. 25, 1948.....	7.86	17	0.02	3.1	1.6	3.4		21	1.4	1.8	0.1	0.3	14	41	0	51	6.6	3
ISLAND CREEK NEAR MAYO																		
May 24, 1951.....	7.30	11	0.01	2.6	0.9	3.2		12	2.3	2.6	0.1	0.8	31	10	0	32	6.1	3
Oct. 16.....	3.89	11	.03	2.2	.9	3.0		12	2.2	1.8	.2	.7	29	9	0	33	7.5	4

c Daily mean discharge.
d Organic matter present; sum of mineral constituents 24 parts per million.
g Calculated from determined constituents.
k Organic matter present; sum of mineral constituents 25 parts per million.
L Organic matter present; sum of mineral constituents 28 parts per million.
m Organic matter present; sum of mineral constituents 32 parts per million.
n Organic matter present; sum of mineral constituents 34 parts per million.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960—Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
KEOWEE RIVER NEAR JOCASSEE																		
Mar. 17, 1955.....	o310	7.1	0.02	1.0	0.3	2.7	0.6	7	2.3	1.0	0.1	0.8	19	4	0	15	6.1	6
May 24, 1957.....	c331	9.6	.01	2.4	.2	1.2	.5	8	.4	2.2	.0	.7	g21	7	0	18	6.2	15
Apr. 15, 1958.....	c874	7.7	.10	.8	.3	1.2	.4	7	.2	1.0	.0	1.0	17	3	0	16	6.1	10
May 13, 1959.....	c712	7.0	.01	.9	.2	1.5	.5	7	1.1	.5	.1	.2	g15	3	0	14	6.1	5
Apr. 27, 1960.....	c538	9.1	.04	.8	.3	1.4	.6	9	1.0	.8	.0	.1	23	3	0	15	6.3	5
KINGS CREEK AT KINGS CREEK																		
May 16, 1949.....	59.4	14	0.07	11	3.0	4.6		51	3.9	2.6	0.1	0.2	65	40	0	97	7.4	6
May 2, 1950.....	38.4	16	.08	11	3.1	5.1		54	3.4	2.2	.1	.2	70	40	0	101	7.0	3
Nov. 16.....	18.0	16	.09	14	3.8	4.0		63	4.0	2.2	.1	.1	75	51	0	118	7.6	6
May 8, 1951.....	33.8	12	.01	14	3.8	4.9		64	4.4	2.6	.1	.4	74	51	0	118	6.8	3
Oct. 15.....	12.1	15	.04	12	3.3	17		87	4.7	3.0	.2	.2	98	44	0	157	7.1	7
Apr. 22, 1952.....	40.1	13	.07	14	3.2	8.8		72	4.3	2.6	.0	.1	81	48	0	129	7.2	3
May 23, 1957.....	19.9	14	.03	16	3.9	4.4	1.6	71	8.9	4.0	.0	.3	94	56	0	135	7.1	5
May 22, 1958.....	49.3	14	.00	13	4.4	1.7	.7	58	5.5	2.5	.2	.4	72	51	3	125	7.1	10
May 4, 1959.....	45.2	14	.04	15	3.5	4.0	1.4	62	7.8	2.5	.2	.1	80	52	1	128	6.8	5
May 6, 1960.....	51.2	14	.02	13	3.4	3.5	1.1	55	4.9	2.0	.2	.2	75	45	0	112	7.5	5
KINGSTREE SWAMP CANAL NEAR KINGSTREE																		
May 23, 1951.....	2.24	14	0.04	8.3	1.6	7.6		31	5.6	8.0	0.2	0.9	65	27	2	98	6.6	9
Oct. 31.....	.68	17	.19	11	1.7	8.3		46	4.7	6.1	.3	.5	75	34	0	107	7.6	18
LAKES MARION-MOULTRIE DIVERSION CANAL NEAR PINEVILLE																		
Sept. 27, 1946.....	c11,100	10	0.16	3.8	1.4	6.7		25	3.8	2.9	0.2	0.8	46	15	0	--	6.6	23
Feb. 15, 1949.....	c29,500	9.6	.10	3.6	1.5	5.0		21	3.5	3.0	.2	.4	42	15	0	52	6.8	7
June 15, 1956.....	c8,700	6.1	.01	5.1	1.9	5.8	1.8	28	7.1	4.0	.1	1.2	54	21	0	73	6.5	15
May 14, 1958.....	c24,700	9.0	.01	3.6	1.9	4.1	1.2	20	5.8	3.5	.2	1.5	44	17	1	55	6.4	20
Jan. 22, 1959.....	c12,900	7.8	.01	4.0	1.4	8.2	1.6	29	4.6	4.2	.0	.9	59	16	0	70	6.3	19
LAWSON FORK CREEK AT SPARTANBURG																		
Nov. 13, 1953.....	29.1	11	0.06	4.0	1.1	7.6		25	3.4	4.0	0.2	1.0	47	14	0	69	6.6	8
June 23, 1954.....	46.2	12	.00	4.4	.9	6.9		22	3.9	4.2	.1	1.8	48	15	0	63	6.3	3
LIGHTWOOD KNOT CREEK NEAR LEESVILLE																		
Nov. 2, 1948.....	11.0	4.3	0.02	1.4	0.6	2.2		6	1.5	2.8	0.0	0.3	22	6	1	20	5.4	23

LITTLE LYNCHES RIVER NEAR BETHUNE

May 8, 1951.....	102	9.7	0.04	2.2	1.2	4.6		10	5.6	3.8	0.2	0.7	34	10	2	41	6.0	30
Mar. 18, 1953.....	253	9.5	.15	2.8	1.2	5.0		5	13	3.6	.0	.2	45	12	8	52	5.8	17
June 23.....	96.0	6.7	.02	1.9	.4	3.4		3	5.3	3.5	.0	1.0	34	6	4	36	5.3	33
Oct. 29.....	71.3	7.2	.52	1.1	.4	3.5		4	3.9	3.0	.0	.6	30	4	1	29	5.6	26
Apr. 26, 1954.....	53.5	7.4	.15	2.0	.6	3.5		4	6.9	3.5	.0	.6	36	6	5	37	5.7	55
May 4, 1955.....	45.2	5.5	.66	1.9	.6	3.6	0.8	6	6.8	3.2	.0	.0	39	7	2	37	5.9	65
June 23.....	65.4	6.7	.19	2.4	1.0	3.2	.7	6	4.7	2.6	.0	1.1	41	10	3	37	6.4	27
Nov. 2.....	36.5	8.1	.33	1.6	.7	5.9	.6	6	11	3.0	.0	.4	39	7	2	50	5.7	35
June 11, 1956.....	59.5	6.5	.51	1.6	.6	3.4	.6	6	5.0	3.5	.1	1.3	41	6	1	41	5.7	40
Sept. 18.....	30.2	4.4	.25	.6	.2	2.3	.3	4	1.3	2.0	.0	1.3	22	3	0	20	5.4	25
June 18, 1957.....	42.5	9.4	.20	1.9	.9	3.0	.5	4	6.7	2.9	.1	.9	44	9	5	39	5.5	45
May 20, 1956.....	123	9.2	.28	1.2	1.5	1.3	.1	5	4.1	3.5	.2	.7	d41	9	5	39	5.7	60
May 18, 1959.....	71.6	9.0	.14	1.4	.9	1.6	.4	6	2.9	2.6	.1	.5	31	7	2	34	6.0	26
May 16, 1960.....	126	9.0	.04	1.6	.9	3.1	.9	8	3.2	3.0	.1	.9	32	6	1	36	6.3	10

LITTLE PINE TREE CREEK AT CAMDEN

Mar. 6, 1951.....		5.3	0.06	0.6	0.3	2.6		3	2.1	2.2	0.1	0.4	a27	3	0	21	5.4	45

LITTLE RIVER AT LAURENS

Mar. 9, 1951.....		19	0.04	3.6	1.5	5.8		25	2.7	3.0	0.1	0.5	52	16	0	63	7.1	6

LITTLE RIVER NEAR SILVERSTREET

May 14, 1953.....	118	24	0.02	6.2	2.2	4.4		27	4.0	4.5	0.2	1.1	74	24	2	89	7.5	22
Oct. 14.....	36.7	28	.04	7.1	2.0	9.8		42	4.5	5.0	.2	.6	79	26	0	95	6.7	7
Apr. 21, 1954.....	105	24	.07	7.0	2.4	7.9		40	4.1	4.2	.2	1.1	74	27	0	90	7.0	16
May 20.....	70.8	25	.12	6.6	2.7	6.6		39	3.0	4.2	.1	1.0	80	28	0	102	6.8	7
June 11.....	42.7	28	.02	5.8	1.7	11		42	2.7	5.2	.2	1.5	79	21	0	93	6.8	2
Apr. 20, 1955.....	155	23	.04	6.3	1.9	6.6	2.2	36	5.4	4.2	.1	.6	73	24	0	84	7.3	7
June 20.....	96.6	25	.03	5.5	2.8	7.6	2.0	39	4.3	4.2	.2	1.6	74	25	0	86	7.2	6
June 21, 1956.....	26.8	28	.24	7.1	2.5	7.5	2.1	48	2.6	3.3	.2	1.3	85	28	0	97	6.8	20
May 21, 1958.....	189	23	.02	6.0	3.4	4.4	1.8	39	1.7	4.2	.2	1.3	71	29	0	110	6.6	20
May 5, 1960.....	124	24	.26	6.2	3.3	6.6	1.3	43	1.1	4.5	.2	.3	70	29	0	90	7.2	20

LITTLE SALUDA RIVER AT SALUDA

Aug. 9, 1950.....	4.22	12	0.04	6.5	2.5	10		36	3.7	9.5	0.2	1.5	69	26	0	107	6.5	27

LONG CANE CREEK NEAR ABBEVILLE

Nov. 2, 1948.....	25.2	25	0.01	6.3	2.9	7.5		44	3.2	3.0	0.1	0.1	71	10	0	83	6.6	7
Dec. 20, 1949.....	34.7	26	.07	6.4	3.0	7.3		43	3.4	3.5	.1	.2	71	28	0	84	6.9	5
Jan. 17, 1951.....	38.8	24	.06	5.2	2.5	6.8		35	3.6	3.4	.2	.3	66	23	0	82	6.9	5
May 27, 1952.....	34.9	25	.07	6.0	2.3	5.5		35	2.4	3.2	.1	.4	68	24	0	81	6.6	4
Mar. 26, 1953.....	---	21	.06	5.0	2.2	7.5		34	3.7	4.0	.1	.2	63	22	0	68	6.9	8
Apr. 26, 1957.....	29.8	27	.19	6.4	3.2	5.6	1.2	44	2.5	4.0	.0	.5	74	29	0	83	6.5	10

a Organic matter present; sum of mineral constituents 15 parts per million.
c Daily mean discharge.
d Organic matter present; sum of mineral constituents 24 parts per million.
g Calculated from determined constituents.
o Provisional mean discharge.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
LYNCHES RIVER NEAR BETHUNE																		
May 27, 1952	52.2	9.2	0.10	1.0	0.5	4.7		4	5.9	3.2	0.0	1.0	33	5	1	38	6.1	37
June 24, 1953	156	6.4	.05	2.0	.5	3.4		10	1.2	3.2	.0	.6	30	7	0	33	6.1	13
Oct. 29	111	7.6	.20	1.8	.5	2.9		8	1.2	3.5	.0	.2	29	7	0	26	6.1	20
Apr. 26, 1954	116	8.8	.14	2.5	.7	3.9		10	2.6	4.2	.0	.9	36	9	1	40	6.5	55
May 4, 1955	59.1	6.0	.50	2.0	.7	3.5	0.6	12	3.2	1.5	.0	.3	37	8	0	40	6.6	65
June 23	96.3	7.9	.22	1.9	1.0	2.9	.8	11	3.3	3.5	.0	1.2	37	9	0	35	6.4	33
Nov. 2	44.3	7.5	.27	1.2	1.0	2.8	.6	11	.9	3.0	.0	.4	34	7	0	31	6.1	37
June 11, 1956	27.6	6.9	.37	1.9	1.0	3.3	.8	14	1.1	3.3	.1	1.3	34	9	0	38	6.2	33
Sept. 18	24.1	4.2	.23	1.2	1.0	2.3	.4	8	2.0	2.0	.1	1.0	21	7	0	24	6.2	40
June 18, 1957	88.9	9.5	.24	2.2	.7	3.8	.7	11	1.0	4.6	.2	1.0	53	8	0	42	6.9	45
May 20, 1958	151	8.5	.17	1.8	1.6	2.9	.4	11	3.2	4.0	.1	.9	37	11	2	40	6.1	70
May 18, 1959	190	8.3	.13	2.1	1.0	2.7	.6	15	.3	2.2	.2	.9	37	9	0	46	6.2	20
May 16, 1960	350	8.3	.21	2.0	1.1	3.8	.8	15	1.2	3.5	.1	.9	39	10	0	41	6.6	30
MIDDLE TYGER RIVER AT LYMAN																		
Sept. 23, 1946	c116	9.3	0.02	1.9	0.7	4.3		12	2.9	2.0	0.2	1.0	32	8	0		6.4	14
May 25, 1955	c158	8.8	.06	2.6	1.1	2.7	1.3	13	3.6	1.8	.1	1.4	34	11	0	36	6.8	10
NINETY SIX CREEK NEAR NINETY SIX																		
Dec. 2, 1949	4.98	31	0.02	11	5.7	7.7		68	4.1	5.2	0.1	0.2	98	51	0	138	7.0	8
Jan. 9, 1951	12.6	20	.11	7.2	3.8	7.8		41	7.4	6.0	.2	.2	76	34	0	107	6.8	6
Oct. 4	2.17	30	.02	7.4	3.9	8.9		47	8.0	4.8	.1	.1	87	34	0	116	7.1	6
Nov. 28, 1956	--	34	.30	11	5.4	7.8	1.4	68	4.7	4.7	.2	.3	g103	49	0	137	7.2	12
NORTH FORK EDISTO RIVER NEAR NORTH																		
June 14, 1950	384	8.1	0.04	1.2	0.4	3.7		9	1.2	2.4	0.1	0.5	23	5	0	23	5.4	7
Jan. 31, 1951	451	5.5	.05	1.0	.3	3.4		7	1.3	2.5	.1	.3	23	4	0	17	5.6	13
May 1	561	4.9	.07	1.6	1.1	1.4		8	1.4	2.4	.0	.1	26	8	2	24	5.7	46
Sept. 12	344	6.3	.07	1.4	.4	2.0		6	1.2	2.1	.1	.3	17	5	0	19	6.3	11
Apr. 8, 1952	829	1.8	.08	2.0	.6	.4		3	1.4	2.8	.0	.6	p22	7	5	21	5.1	30
Apr. 15, 1953	634	2.4	.09	1.4	.3	1.7		4	.8	2.8	.0	.6	23	5	0	24	5.6	33
Nov. 5	375	6.3	.08	1.7	.3	1.6		4	1.5	2.8	.0	.1	22	6	2	17	5.6	9
May 12, 1955	221	.8	.21	.9	.2	1.2	0.4	4	2.5	.5	.0	.0	19	3	0	16	6.4	35
Nov. 8	241	6.5	.07	.8	.1	1.3	.4	4	.7	2.5	.0	.6	19	2	0	18	5.9	10
Sept. 19, 1956	188	4.3	.08	.8	.2	1.4	.2	3	1.1	1.7	.0	.8	13	3	1	16	5.5	10
June 19, 1957	422	6.5	.19	1.0	.3	1.9	.2	3	.1	1.9	.2	1.1	a32	4	1	23	5.1	55
June 5, 1958	325	6.1	.04	1.6	.2	1.1	.5	5	.4	2.8	.0	.8	20	5	1	18	5.4	35
May 28, 1959	555	6.0	.27	1.0	.4	1.0	.3	3	.2	1.7	.1	.9	h29	4	2	17	5.4	70
June 14, 1960	429	5.3	.04	.6	.4	1.6	.3	3	.9	2.2	.1	1.2	20	3	0	16	5.6	30

NORTH SALUDA RIVER RESERVOIR NEAR GREENVILLE																		
May 13, 1959.....		9.5	0.02	1.9	1.2	1.9	0.9	12	1.2	1.5	0.0	0.0	28	10	0	25	6.5	10
NORTH TYGER RIVER NEAR FAIRMONT																		
Feb. 16, 1951.....	c42	17	0.36	3.2	1.1	3.0		15	2.0	2.9	0.0	0.7	39	12	0	43	6.9	3
Feb. 7, 1952.....	c74	13	.10	3.0	1.5	3.0		14	3.3	2.6	.0	2.1	38	14	2	40	7.5	5
Jan. 15, 1953.....	c46	10	.02	2.7	1.0	5.0		16	3.7	2.6	.1	1.0	34	11	0	40	7.4	3
Nov. 18.....	c21	14	.07	3.2	.7	5.1		18	2.4	2.5	.2	.8	39	11	0	72	6.8	7
May 25, 1955.....	c75	15	.00	3.4	1.6	2.2	1.0	16	4.2	2.5	.1	1.0	39	15	2	41	6.6	7
Apr. 3, 1956.....	c42	11	.01	3.7	.9	2.3	1.0	18	1.0	2.7	.0	1.2	41	13	0	43	6.7	10
Apr. 17, 1957.....	c45	13	.04	3.0	1.6	1.7	.4	16	.0	3.5	.2	1.8	38	14	0	43	6.3	10
Jan. 27, 1959.....	c46	13	.00	3.0	1.3	2.6	.8	19	.1	2.4	.1	1.3	37	13	0	41	6.8	5
May 17, 1960.....	c66	12	.03	3.4	1.0	1.9	.8	18	1.3	2.0	.0	.8	42	12	0	40	6.6	8
PACOLET RIVER NEAR CLIFTON																		
Feb. 26, 1946.....	c715	11	0.02	2.4	1.1	3.0		14	2.4	1.8	0.0	0.6	30	10	0	--	6.9	8
Feb. 15, 1949.....	c627	11	.02	2.4	1.1	3.6		16	1.8	2.0	.1	.3	33	10	0	37	6.8	4
Apr. 13, 1955.....	c884	13	.00	2.5	1.2	3.3	1.1	17	3.4	2.0	.1	1.3	36	11	0	42	6.9	13
Mar. 7, 1956.....	c312	12	.00	3.3	1.3	3.7	1.0	22	2.6	2.0	.1	1.1	38	13	0	52	6.7	10
May 23, 1956.....	c514	13	.00	2.8	1.2	4.4	.7	21	2.2	2.0	.0	.7	39	12	0	49	6.7	10
Feb. 17, 1959.....	c521	12	.03	3.0	1.1	2.9	.9	19	.3	2.0	.1	.8	36	12	0	41	7.1	5
Mar. 15, 1960.....	c988	10	.02	2.3	1.9	2.1	1.2	13	1.5	4.0	.0	1.1	34	14	3	36	6.7	5
PEE DEE RIVER AT CHERAW																		
Dec. 18, 1951.....		8.6	0.05	4.0	1.6	7.7		25	4.8	4.8	0.2	0.7	46	17	0	70	7.1	4
Jan. 19, 1956.....		10	.01	5.0	1.1	7.5	1.7	24	7.8	6.0	.1	1.5	57	17	0	76	6.8	20
PEE DEE RIVER NEAR MARS BLUFF																		
Mar. 12, 1946.....	c8,100	7.8	0.16	3.3	1.4	5.9		20	4.2	3.6	0.1	0.9	42	14	0		7.3	15
RABON CREEK AT LAURENS																		
Mar. 9, 1951.....		18	0.08	4.3	1.4	6.1		27	2.3	3.1	0.1	0.6	52	16	0	60	7.2	7
RAMSEY CREEK AT WESTMINISTER																		
Jan. 28, 1956.....		15	0.19	3.2	1.0	3.2	0.6	21	2.0	1.5	0.0	0.4	41	12	0	42	7.1	12
RED BANK CREEK AT RED BANK																		
June 19, 1950.....	13.9	4.3	0.02	1.5	0.5	1.2		5	1.0	2.0	0.1	0.3	16	6	2	20	5.4	8
RED BANK CREEK AT SALUDA																		
Jan. 27, 1955.....		8.4	0.08	4.8	1.9	6.8	1.4	18	8.4	8.8	0.0	1.5	65	20	5	83	7.0	37

a Organic matter present; sum of mineral constituents 15 parts per million.
c Daily mean discharge.
g Calculated from determined constituents.
h Organic matter present; sum of mineral constituents 13 parts per million.
p Organic matter present; sum of mineral constituents 11 parts per million.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
REEDY RIVER NEAR WARE SHOALS																		
Aug. 12, 1946.....	c238	12	0.07	3.2	1.3	21		48	7.0	6.8	0.2	2.0	81	13	0	--	--	18
Feb. 14, 1949.....	c517	9.3	.06	2.8	1.1	14		31	6.7	5.2	.3	2.4	64	12	0	91	6.6	12
Apr. 21, 1955.....	c303	9.5	.05	4.3	1.0	22	2.8	49	10	8.5	.2	2.6	93	15	0	139	7.0	20
Jan. 26, 1959.....	c266	12	.13	3.4	1.5	28	2.9	50	11	12	.4	4.6	108	15	0	165	6.8	60
ROCKY CREEK AT GREAT FALLS																		
Mar. 1, 1960.....	c190	5.5	0.02	5.9	3.4	5.4	1.1	38	2.8	4.4	0.1	0.6	51	29	0	83	7.4	5
ROCKY CREEK AT McCORMICK																		
Feb. 6, 1956.....		16	0.05	8.4	3.9	5.5	1.1	35	12	5.0	0.2	0.4	88	37	8	108	6.7	40
ROCKY RIVER AT ABBEVILLE																		
June 19, 1958.....		15	0.27	8.4	0.7	4.1	2.1	34	0.4	6.4	0.2	1.2	64	24	0	73	7.7	50
ROCKY RIVER NEAR ANDERSON																		
Dec. 2, 1949.....	34.1	18	0.02	3.7	2.1	2.5		22	1.6	2.2	0.0	0.7	45	18	0	57	6.7	5
Feb. 13, 1951.....		17	.11	2.2	.8	8.0		22	3.0	2.8	.1	1.0	48	9	0	54	7.0	27
ROCKY RIVER NEAR CALHOUN FALLS																		
Feb. 10, 1950.....	270	16	0.05	3.5	1.4	5.6		22	2.7	3.2	0.1	1.3	45	14	0	54	7.3	9
Apr. 27.....	85.8	16	.06	4.0	1.6	5.7		25	2.9	3.2	.1	1.0	48	17	0	60	6.7	3
Jan. 17, 1951.....	c167	17	.08	3.1	1.3	6.4		21	3.3	3.5	.2	1.2	50	13	0	58	7.2	17
May 31.....	c198	15	.01	3.8	1.3	5.9		24	3.1	2.8	.1	.6	45	15	0	58	6.3	3
Nov. 7.....	c116	14	.03	4.2	1.6	7.3		28	3.1	3.9	.3	.6	49	17	0	64	6.9	8
May 23, 1952.....	c180	14	.01	3.4	1.4	5.6		20	4.1	3.2	.2	.8	44	14	0	55	6.2	7
Mar. 25, 1955.....	c372	13	.02	3.1	1.2	4.3	2.0	18	4.4	4.5	.0	1.4	46	13	0	55	6.8	16
Mar. 30, 1956.....	c506	12	.05	3.3	1.2	3.2	1.8	16	3.3	2.6	.1	.9	48	13	0	49	6.5	22
Mar. 27, 1958.....	c544	13	.13	2.6	1.1	4.4	1.8	17	2.4	3.7	.0	1.6	45	11	0	46	6.5	30
Feb. 24, 1959.....	c319	17	.03	3.2	1.5	4.5	1.6	22	1.4	3.2	.2	1.2	47	14	0	54	6.9	5
SALKEHATCHIE RIVER NEAR BARNWELL																		
Feb. 27, 1946[q].....	58.4	6.9	0.17	5.6	0.5	2.4		19	1.3	2.9	0.0	0.2	37	16	0	41	6.8	48
Mar. 16, 1949[r].....	227	5.3	.04	4.5	.6	2.6		16	1.6	3.0	.0	.3	31	14	1	41	6.7	31

SALKEHATCHIE RIVER NEAR MILEY

Sept. 25, 1946.....	195	11	0.10	9.0	0.6	4.5	0.7	28	1.5	7.0	0.1	0.2	58	26	3	--	6.9	55
Jan. 25, 1950.....	250	9.8	.04	8.0	.9		2.9	28	1.5	3.8	.0	.2	46	24	1	64	6.7	28
Apr. 30, 1951.....	208	10	.03	8.1	1.5		3.2	31	1.8	4.1	.0	.6	57	26	1	69	6.3	30
May 12, 1955.....	c45	7.6	.16	12	.3	2.7	.5	36	2.3	4.0	.0	.3	58	30	1	76	7.1	50
Apr. 29, 1958.....	c397	7.6	.29	8.4	1.0	3.1	.6	26	1.3	4.2	.1	1.2	s70	25	4	64	6.2	100
Feb. 1, 1960.....	c1,250	6.4	.11	5.0	.7	2.7	.7	15	2.2	4.8	.1	.1	t54	15	3	40	6.5	100

SALUDA RIVER AT NEWBERRY

Apr. 16, 1958.....		14	0.02	6.2	0.4	6.4	1.4	25	3.5	3.3	0.2	1.1	g49	17	0	63	6.8	15

SALUDA RIVER NEAR COLUMBIA

Sept. 25, 1946.....	c3,640	10	0.02	3.6	1.4		7.3	26	4.3	3.0	0.1	0.5	45	15	0	--	6.2	13
May 15, 1956.....	c3,930	7.9	.00	3.3	1.3	9.6	1.7	32	3.0	4.7	.2	.6	53	13	0	83	7.0	7
Apr. 23, 1959.....	c856	6.2	.00	3.1	1.1	6.3	1.3	22	3.4	4.6	.1	.3	41	12	0	60	6.5	17
Feb. 9, 1960.....	c6,090	9.5	.03	3.2	1.5	7.4	1.9	27	2.3	5.0	.2	.5	46	14	0	65	7.0	20

SALUDA RIVER NEAR GREENWOOD

Feb. 16, 1951.....		13	0.12	2.0	0.6		9.1	22	3.4	3.9	0.1	0.8	47	8	0	72	6.8	45

SALUDA RIVER NEAR IRMO

Mar. 6, 1955.....	149	6.6	0.01	3.6	1.5	10	2.0	30	5.4	5.0	0.1	0.6	52	15	0	79	7.4	17

SALUDA RIVER NEAR WARE SHOALS

Sept. 23, 1946.....	c478	13	0.01	2.2	0.6		6.2	18	3.3	2.0	0.2	0.8	40	9	0	--	6.9	7
Feb. 14, 1949.....	c1,640	12	.04	2.6	.9		6.1	26	3.7	1.6	.1	.4	44	11	0	57	6.8	7
Apr. 20, 1955.....	c738	12	.20	2.8	.9	6.1	1.7	22	6.7	4.8	.1	.4	49	11	0	65	6.7	17
Apr. 3, 1958.....	c710	13	.00	2.7	.6	11	1.4	27	8.0	4.2	.1	1.0	64	10	0	81	6.6	10
Apr. 6, 1956.....	c2,760	11	.07	1.6	.9	3.6	1.2	11	1.8	3.5	.1	2.2	32	6	0	36	6.1	10
Jan. 26, 1959.....	c732	12	.01	2.6	.6	11	.9	19	2.6	9.0	.1	1.1	56	9	0	75	6.8	5

SANDY RIVER AT CHESTER

Mar. 9, 1951.....		20	0.07	5.4	2.7		7.6	35	3.4	5.2	0.1	1.4	65	25	0	91	6.4	5

SANDY RIVER NEAR LEEDS

Dec. 16, 1949.....	339	15	0.06	6.8	3.6		6.7	38	6.7	5.2	0.1	0.7	66	32	1	89	6.6	16
May 4, 1950.....	82.3	20	.06	9.0	4.7		6.0	57	5.2	4.2	.2	.6	81	42	0	121	6.7	10
Nov. 15.....	19.7	25	.18	6.6	4.5	11		53	6.5	6.2	.4	1.2	92	40	0	132	7.1	7
Oct. 16, 1951.....	6.54	22	.01	9.6	4.9	16		67	5.4	12	.2	1.4	105	44	0	168	6.5	2
June 11, 1953.....	12.2	21	.02	9.5	4.4	13		62	5.1	8.5	.1	1.7	110	42	0	160	6.9	6
Oct. 13.....	4.64	22	.07	6.3	3.4	13		53	3.8	7.5	.2	.5	89	30	0	126	7.1	7
June 12, 1957.....	49.6	21	.30	7.9	4.6	8.3	1.6	53	2.7	5.8	.2	1.7	92	40	0	118	6.7	55

c Daily mean discharge.
g Calculated from determined constituents.
q Collected at bridge on State Highway 64.
r Collected at bridge on State Highway 3.
s Organic matter present; sum of mineral constituents 41 parts per million.
t Organic matter present; sum of mineral constituents 30 parts per million.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
SANDY RIVER AT SANDY RIVER																		
Apr. 23, 1952.....	21.3	20	0.17	8.4	4.2	11		54	6.2	7.5	0.1	1.6	92	38	0	130	6.8	5
SANTEE RIVER NEAR JAMESTOWN																		
June 6, 1951.....	197	10	0.01	7.8	2.3	6.8		37	4.9	4.9	0.2	1.1	59	29	0	88	6.3	3
SANTEE RIVER NEAR SAINT STEPHEN																		
June 6, 1951.....	529	9.7	0.02	5.6	2.1	7.9		32	4.9	5.0	0.2	1.0	52	23	0	82	6.8	4
SAVANNAH RIVER NEAR CALHOUN FALLS																		
Aug. 15, 1946.....	c3,140	12	0.03	2.8	1.2	4.2		19	2.2	2.0	0.1	0.4	35	12	0	--	--	5
Mar. 4, 1949.....	c6,230	12	.04	2.7	1.2	3.8		16	2.7	2.4	.1	.6	35	12	0	38	6.8	7
Mar. 24, 1955.....	c6,400	3.5	.00	3.3	.9	3.4	1.3	15	5.1	2.2	.1	1.3	36	12	0	42	7.3	5
Mar. 29, 1956.....	c5,060	9.9	.02	2.7	.7	2.7	1.5	14	3.4	2.2	.0	.8	43	10	0	43	6.3	18
May 9.....	c5,860	11	.00	2.6	.6	3.0	1.2	16	.7	1.5	.2	1.2	31	9	0	42	6.6	10
May 14, 1958.....	c7,810	11	.04	2.8	1.2	2.8	1.0	15	4.1	3.0	.1	.9	39	12	0	39	6.3	20
Apr. 17, 1959.....	c5,930	11	.02	1.9	.6	3.3	1.0	15	1.5	2.3	.1	.2	29	7	0	34	6.3	3
Feb. 17, 1960.....	c10,100	10	.02	1.9	.9	2.7	1.6	14	1.5	1.7	.1	.5	35	8	0	36	6.8	15
SAVANNAH RIVER NEAR CLYO, GA.																		
Apr. 1, 1958.....	c18,400	8.5	0.13	3.2	1.6	3.9	1.1	19	0.9	4.0	0.0	0.9	38	14	0	48	6.3	35
Feb. 2, 1959.....	c8,280	11	.01	4.0	1.1	4.4	.9	25	.3	2.6	.1	.3	44	15	0	54	7.0	5
Mar. 30, 1960.....	c22,400	8.4	.06	3.3	1.3	3.7	1.1	20	4.4	1.8	.1	.2	41	14	0	50	6.3	15
SAVANNAH RIVER NEAR MILLHAVEN, GA.																		
May 25, 1949.....	c10,000	12	0.03	3.6	1.2	4.6		19	3.0	3.0	0.1	0.9	41	14	0	49	6.7	6
June 1, 1955.....	c6,350	6.3	.03	3.8	1.1	5.1	1.6	21	3.6	3.0	.1	1.9	43	14	0	55	7.2	12
Feb. 2, 1959.....	c7,040	11	.01	3.2	1.1	4.7	.9	23	.8	3.0	.1	.3	42	13	0	50	6.9	5
Mar. 31, 1960.....	c12,900	5.4	.11	3.9	1.0	3.1	1.2	21	3.9	2.0	.1	.3	43	14	0	48	6.6	25
SENECA RIVER AT CLEMSON																		
June 24, 1952.....	--	12	0.05	1.9	0.7	3.7		13	1.4	2.0	0.1	0.8	30	8	0	30	6.7	2
Nov. 5.....	462	14	.04	2.4	1.0	3.3		17	1.0	1.5	.0	.2	32	10	0	41	6.3	4
June 3, 1953.....	756	12	.03	1.6	1.2	3.8		15	.9	2.0	.1	1.1	31	9	0	31	6.5	2
Nov. 6.....	458	13	.14	1.8	.4	4.9		14	2.0	1.8	.2	.2	34	6	0	48	6.6	9
Mar. 16, 1955.....	874	11	.00	2.0	.7	2.1	0.6	12	2.0	1.5	.0	.2	26	8	0	26	6.5	3
Nov. 2.....	336	13	.10	2.4	1.1	2.7	1.2	20	.5	1.0	.0	.5	g32	11	0	37	8.5	22
Jan. 9, 1956.....	--	14	.04	2.8	.8	3.0	.8	16	1.9	1.8	.1	.5	36	10	0	40	6.6	4

SENECA RIVER NEAR ANDERSON

Aug. 14, 1946.....	c1,030	12	0.03	2.4	1.0	3.5		16	1.4	2.0	0.0	0.5	32	10	0	--	--	4
June 16, 1949.....	c3,470	11	.05	2.4	.6	3.4		13	2.0	1.9	.0	.5	29	8	0	30	6.2	7
Mar. 16, 1955.....	c1,330	11	.00	1.8	.8	7.3	1.0	23	3.1	2.5	.1	.4	41	8	0	53	7.2	5
Apr. 30, 1956.....	c1,720	11	.00	2.3	.5	2.7	.8	14	.5	1.5	.1	.8	29	8	0	41	6.8	10

SHAW CREEK AT AIKEN

June 11, 1958.....		2.8	0.31	1.3	0.7	2.9	0.6	7	1.2	5.2	0.2	0.8	23	7	1	26	6.0	60

SHAW CREEK NEAR EUREKA

Sept. 24, 1946.....	41.0	6.4	0.01	1.2	0.5	3.9		8	1.5	3.6	0.0	0.4	30	5	0	--	6.0	38
May 23, 1949.....	43.1	5.6	.06	1.4	.4	3.2		6	1.7	3.5	.0	.7	25	5	0	26	6.1	17
Dec. 12.....	47.8	7.7	.03	2.2	1.0	2.5		9	1.4	3.8	.0	1.0	28	10	2	27	6.0	7
Apr. 24, 1950.....	29.7	8.6	.06	1.6	.5	3.7		8	1.2	3.5	.1	1.3	26	6	0	27	6.0	5
May 23.....	37.4	6.2	.10	1.1	.5	3.1		6	1.2	3.2	.1	.7	22	5	0	26	7.2	9
June 16.....	28.3	6.6	.06	1.2	.5	3.5		7	.9	3.2	.1	1.4	23	5	0	27	6.0	6
Nov. 10.....	32.0	8.1	.07	1.1	1.1	3.2		7	1.7	4.0	.2	.7	27	7	2	30	6.5	26
June 14, 1951.....	39.1	6.6	.11	1.8	.8	3.2		9	1.8	3.6	.0	.6	30	8	0	34	6.1	30
Oct. 30.....	34.2	7.5	.15	1.7	.5	3.8		8	.9	4.6	.1	.5	26	6	0	29	6.8	22
Nov. 20, 1956.....	20.6	5.8	.15	1.2	.2	3.7	0.3	6	.1	4.0	.0	1.5	26	4	0	29	5.9	30
May 1, 1957.....	24.7	4.9	.29	1.2	.2	3.6	1.0	7	1.3	4.5	.0	1.2	34	4	0	31	5.7	40
June 11, 1958.....	27.1	6.0	.01	1.6	.5	3.1	.6	7	.9	4.1	.1	1.4	25	6	0	29	5.8	20
May 19, 1959.....	28.8	5.4	.09	.8	.4	3.0	.3	8	.1	3.0	.1	.6	27	4	0	26	6.8	25
Mar. 28, 1960.....	77.2	4.1	.08	1.1	.4	2.9	.6	6	2.6	3.0	.1	1.0	25	4	0	28	6.8	10

SOUTH FORK EDISTO RIVER NEAR MONTMORENCI

Mar. 11, 1946.....	c196	3.4	0.13	0.8	0.7	4.0		8	2.1	3.4	0.0	0.2	23	5	0	--	6.5	33
May 23, 1949.....	c186	5.0	.04	1.0	.4	4.1		6	3.4	3.1	.0	.3	23	4	0	20	5.8	17
Apr. 25, 1955.....	c164	7.1	.33	1.5	.3	2.5	0.7	6	1.7	3.5	.0	1.0	29	5	0	26	6.3	55
Mar. 26, 1956.....	c186	4.8	.22	.8	.5	2.4	.4	6	1.6	3.3	.0	.5	u33	4	0	26	5.9	40
Apr. 24, 1959.....	c240	5.2	.09	1.4	.1	2.3	.5	6	.4	2.4	.1	.6	25	4	0	24	5.9	37

SOUTH PACOLET RIVER AT SPARTANBURG

Feb. 16, 1951.....		12	0.04	5.7	0.9	0.6		15	2.9	2.2	0.1	0.7	34	18	6	35	6.5	3

SOUTH SALUDA RIVER NEAR GREENVILLE

Feb. 16, 1951.....		7.8	0.03	0.9	0.4	2.9		8	1.8	1.0	0.1	0.2	19	4	0	18	6.2	6
May 13, 1959.....		7.5	.01	.8	.6	0.9	0.3	5	2.2	.5	.0	.1	15	4	0	14	6.5	5

SOUTH TYGER RIVER AT GREER

Dec. 20, 1951.....		11	0.06	2.3	0.9	4.1		14	2.6	2.5	0.1	0.5	32	9	0	35	6.9	5
May 20, 1958.....		13	.30	3.2	1.1	2.6	1.0	17	1.1	2.2	.0	.9	53	12	0	37	6.5	35

c Daily mean discharge.
g Calculated from determined constituents.
u Organic matter present; sum of mineral constituents 18 parts per million.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
SOUTH TYGER RIVER NEAR REIDVILLE																		
May 17, 1949.....	c234	11	0.05	2.5	0.8	4.0		15	1.9	2.2	0.0	0.9	33	10	0	33	6.8	4
May 25, 1955.....	c372	8.1	.04	2.9	.9	2.2	1.6	12	4.3	2.0	.1	1.3	34	11	1	42	7.2	15
Apr. 4, 1956.....	c31	9.5	.09	3.4	.6	3.1	1.5	15	2.0	3.2	.0	2.8	42	11	0	47	6.5	20
Jan. 27, 1959.....	c121	10	.00	2.9	.7	3.3	1.3	12	1.4	2.3	.0	1.7	36	10	0	38	5.9	8
STEVENS CREEK NEAR MODOC																		
Aug. 15, 1946.....	c7.6	14	0.05	8.2	3.6	8.3		49	4.1	5.8	0.1	0.5	74	35	0	--	--	16
May 23, 1949.....	c90.0	17	.25	8.4	3.7	9.5		52	4.4	6.4	.1	.3	77	36	0	111	7.3	12
Mar. 23, 1955.....	c319	9.5	.05	5.9	2.2	7.2	1.4	26	7.6	6.5	.0	1.2	70	24	2	86	6.9	35
THICKETTY CREEK AT THICKETTY																		
May 18, 1949.....	43.2	12	0.02	2.8	1.3	3.9		14	4.9	2.4	0.1	0.7	35	12	1	43	6.9	4
Nov. 3, 1955.....	14.2	12	.14	4.0	1.3	18	3.0	26	9.1	19	.0	1.6	86	15	0	134	6.4	10
Dec. 3, 1956.....	21.5	13	.01	3.5	1.3	4.3	1.4	20	2.5	4.2	.0	2.3	g43	14	0	58	6.2	5
May 23, 1958.....	58.4	12	.00	3.6	1.8	3.2	1.0	16	.6	7.0	.2	1.1	43	16	3	61	6.4	10
May 5, 1959.....	45.3	12	.00	3.2	1.4	5.6	1.5	20	3.8	6.7	.0	.6	g45	14	0	63	6.5	4
May 24, 1960.....	44.3	13	.03	3.4	1.4	6.0	1.7	19	4.3	7.0	.0	.7	50	14	0	69	6.5	3
THOMPSON CREEK AT CHESTERFIELD																		
Nov. 12, 1955.....		5.9	0.47	3.2	1.1	4.4	1.6	20	2.8	4.5	0.0	1.0	49	13	0	59	6.5	80
THOMPSON CREEK AT SENECA																		
Jan. 28, 1955.....		16	0.03	4.4	1.0	3.0	0.9	24	1.8	1.8	0.1	0.5	44	15	0	49	7.3	12
THOMPSON CREEK NEAR CHERAW																		
Oct. 29, 1947.....	30.2	8.5	1.1	1.9	1.1	4.3		12	1.4	5.0	0.0	0.4	42	9	0	--	5.9	38
Mar. 3, 1950.....	155	5.7	.12	2.2	1.2	5.2		12	2.1	6.6	.0	.4	34	10	1	46	6.2	18
May 24.....	93.0	7.2	.38	3.1	1.6	6.3		17	2.6	6.8	.2	1.5	45	14	0	61	6.2	5
Nov. 22.....	20.9	8.3	.15	2.2	1.1	5.6		13	2.2	6.0	.2	.2	38	10	0	48	6.2	13
May 8, 1951.....	92.9	6.5	.16	3.0	1.2	5.9		15	3.3	6.4	.0	.7	43	12	0	49	6.1	40
Sept. 12.....	10.9	7.1	.10	2.8	1.0	2.0		6	5.0	3.5	.0	.5	40	11	6	40	6.0	39
May 28, 1952.....	118	7.1	.16	2.8	1.1	4.4		12	3.2	5.2	.0	.6	42	12	2	48	5.8	31
June 23, 1953.....	30.1	5.2	.06	3.2	1.2	4.1		14	1.8	5.5	.0	1.0	44	13	2	52	5.8	17
May 24, 1955.....	36.7	6.8	.70	2.2	1.4	5.3	0.7	13	2.7	5.8	.1	1.7	44	11	1	49	6.3	75
Nov. 2.....	15.0	6.5	.43	2.4	1.6	4.8	1.4	15	1.6	6.0	.1	.4	46	13	0	51	6.4	55
May 20, 1958.....	97.3	6.0	.29	1.8	1.6	2.8	.4	11	1.3	5.5	.1	1.0	v51	11	2	48	6.1	100

TURKEY CREEK AT LANCASTER																		
Apr. 3, 1953.....		12	0.06	2.4	0.9	10		24	5.0	5.1	0.0	0.3	61	10	0	67	6.6	40
TURKEY CREEK AT YORK																		
Feb. 14, 1955.....		18	0.01	4.4	1.9	5.8	1.5	24	6.3	4.0	0.1	0.5	61	19	0	67	7.0	17
TWELVEMILE CREEK AT LEXINGTON																		
Jan. 16, 1956.....		3.8	0.30	1.2	0.6	2.7	0.5	6	1.7	3.8	0.0	0.2	29	6	1	26	6.0	70
TWELVEMILE CREEK NEAR PICKENS																		
June 15, 1949.....	156	12	0.06	2.5	1.0	3.7		16	1.6	2.0	0.0	0.9	33	10	0	33	6.2	2
Feb. 27, 1957.....		14	.00	2.4	.5	2.2	1.1	14	.9	1.6	.1	1.3	32	9	0	37	6.6	8
TYGER RIVER NEAR DELTA																		
May 10, 1950.....	609	16	0.05	5.2	2.1	10		35	5.1	5.4	0.5	1.6	65	22	0	93	6.6	3
Feb. 5, 1951.....	518	18	.06	4.4	1.8	17		42	9.8	6.5	.5	1.1	83	18	0	122	7.7	16
May 3.....	517	16	.02	4.4	1.7	14		41	5.1	5.0	.4	.9	70	18	0	107	7.3	7
Oct. 16.....	155	17	.06	6.6	1.8	31		70	18	8.8	.8	1.6	120	24	0	187	7.4	7
Apr. 23, 1952.....	826	15	.11	4.8	1.6	11		35	5.0	4.4	.3	1.5	65	19	0	87	6.5	4
Apr. 9, 1953.....	940	15	.09	4.6	1.6	12		38	5.6	4.1	.4	1.0	67	18	0	94	6.6	9
Oct. 13.....	177	13	.10	4.8	1.6	32		77	11	7.8	.7	1.6	117	19	0	184	7.0	9
June 15, 1955.....	357	16	.04	5.1	2.4	24	3.0	56	9.6	11	.5	2.4	103	23	0	159	6.9	7
Nov. 8.....	188	15	.09	4.8	1.7	37	3.5	94	10	10	.6	1.0	134	19	0	207	7.4	15
May 24, 1956.....	429	14	.06	4.4	1.5	20	2.5	58	4.9	6.5	.4	1.7	86	17	0	132	7.0	15
Sept. 20.....	89.4	13	.03	5.6	2.2	42	3.6	110	12	10	.8	2.3	148	23	0	239	7.3	10
June 19, 1957.....	440	17	.04	4.4	2.2	18	2.1	56	3.4	5.5	.5	2.8	g84	20	0	125	6.7	10
TYGER RIVER NEAR WOODRUFF																		
May 12, 1950.....	c368	15	0.06	2.8	1.1	35		67	11	15	0.1	0.8	116	12	0	183	6.5	7
May 25, 1955.....	c1,360	9.2	.09	3.0	.6	8.8	2.4	24	8.9	4.0	.1	.3	51	10	0	74	7.3	12
VAUGHNS CREEK AT LANDRUM																		
Jan. 19, 1956.....		14	0.03	1.9	0.5	2.1	1.0	12	1.6	1.2	0.0	0.3	34	7	0	30	6.2	15
WACCAMAW RIVER AT CONWAY																		
Sept. 23, 1958[w].....	1,520	9.7	0.33	7.9	1.3	6.0	0.8	19	3.6	9.2	0.2	0.8	x92	25	9	70	6.2	240
Sept. 23[y].....	1,090	9.5	.01	7.0	1.3	6.6	.8	16	4.3	8.9	.3	1.4	x90	23	8	70	6.0	240
WACCAMAW RIVER NEAR LONGS																		
May 10, 1960.....	c740	3.9	0.17	3.7	0.9	4.3	0.8	10	3.2	6.0	0.2	1.4	t70	13	5	50	6.2	120

c Daily mean discharge.
g Calculated from determined constituents.
t Organic matter present; sum of mineral constituents 30 parts per million.
v Organic matter present; sum of mineral constituents 26 parts per million.
w Collected at 5:06 p.m.
x Organic matter present; sum of mineral constituents 49 parts per million.
y Collected at 12:20 p.m.

MISCELLANEOUS ANALYSES OF STREAMS IN SOUTH CAROLINA--Continued

Chemical analyses, in parts per million, October 1945 to September 1960--Continued

Date of collection	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
WARRIOR CREEK AT LANFORD																		
June 2, 1953.....	9.75	20	0.09	3.9	1.3	5.8		25	1.6	3.0	0.0	1.5	61	15	0	61	6.6	12
Oct. 13.....	6.34	24	.13	3.6	.9	8.6		26	5.6	2.5	.2	.2	59	13	0	55	6.6	8
June 23, 1954.....	7.79	24	.12	3.5	.7	7.1		24	2.1	2.5	.1	1.6	57	12	0	55	6.6	12
May 19, 1959.....	12.2	26	.03	3.8	1.5	4.6	0.9	28	.3	.3	.2	1.2	55	16	0	58	6.8	4
WAXHAW CREEK NEAR SPRINGDELL																		
Mar. 27, 1950.....	25.5	18	0.03	8.6	2.9	8.9		49	4.3	5.5	0.1	0.1	76	33	0	103	7.0	6
WHITEWATER RIVER AT JOCASSEE																		
Apr. 15, 1958.....	c334	6.8	0.00	1.6	0.2	0.6	0.1	6	1.5	1.0	0.1	0.3	18	5	0	13	6.0	10
May 13, 1959.....	c268	6.1	.03	.9	.1	1.1	.5	6	.7	.5	.1	.1	16	3	0	13	6.1	15
May 17, 1960.....	c149	9.3	.04	1.1	.1	1.1	.5	8	1.4	.5	.0	.0	21	4	0	14	6.9	5
WILSON CREEK NEAR IVA																		
Aug. 14, 1950.....	10.3	20	0.05	2.8	1.8	2.6		17	2.0	2.1	0.2	0.7	41	14	0	41	6.8	7
WILSON CREEK NEAR NINETY SIX																		
May 10, 1950.....	24.3	28	0.13	8.6	3.7	9.4		51	4.8	6.2	0.2	1.8	98	37	0	121	6.6	7
June 14.....	19.9	26	.22	8.4	3.3	10		46	3.5	8.8	.2	2.9	92	34	0	127	6.7	7
Jan. 9, 1951.....	37.5	23	.07	7.1	3.1	8.6		37	6.4	7.4	.2	1.4	84	30	0	105	7.2	7
May 9.....	23.0	26	.04	8.3	3.3	11		49	3.5	7.4	.2	3.0	98	34	0	123	6.6	8
Jan. 17, 1952.....	25.4	27	.02	7.6	2.6	12		40	5.8	9.6	.2	2.2	92	30	0	117	6.7	16
June 3, 1953.....	12.1	29	.03	8.2	2.9	14		50	4.1	11	.1	2.2	105	32	0	222	6.8	15
Oct. 14.....	7.31	26	.04	7.2	2.7	19		47	4.9	17	.2	3.8	109	29	0	160	6.8	8
Apr. 21, 1954.....	29.1	25	.37	8.0	3.0	12		45	5.1	8.5	.2	4.1	97	32	0	125	6.8	37
Apr. 15, 1957.....	28.1	25	.05	7.1	3.3	9.7	1.6	43	3.8	8.5	.2	1.6	94	31	0	120	6.2	10
May 21, 1958.....	38.0	26	.01	6.4	4.1	7.4	2.0	41	3.8	7.5	.2	2.5	83	33	0	125	6.8	20
Jan. 26, 1959.....	30.8	20	.11	6.3	2.5	9.5	2.1	35	4.5	8.0	.0	2.2	86	26	0	103	6.4	35
May 5, 1960.....	32.4	27	.21	7.6	3.4	12	2.2	47	3.8	11	.2	2.7	94	33	0	126	6.9	15

c Daily mean discharge.

COMBAHEE RIVER BASIN

COMBAHEE RIVER AT CHEROKEE LANDING NEAR YEMASSEE, S. C.

LOCATION.--12.1 miles upstream from U. S. Highway 17.
RECORDS AVAILABLE.--Chemical analyses: October 1951 to August 1955.
EXTREMES, 1951-55.--Dissolved solids: Maximum, 9,630 ppm Oct. 26, 1954; minimum, 70 ppm June 23, 1953.
Hardness: Maximum, 1,780 ppm Oct. 26, 1954; minimum, 19 ppm Jan. 5, 1954.

Chemical analyses, in parts per million, October 1951 to August 1955

Date of collection	Tide	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Oct. 2, 1951	High	163	13	0.20	11	2.2	15		24	9.8	27	123	36	17	147	6.3	110
Oct. 2	Low	--	14	.21	12	1.0	1.3		25	6.7	6.4	87	34	14	84	6.4	80
Dec. 11	High	338	15	.17	9.0	1.2	3.4		24	3.4	8.2	79	27	8	78	6.7	90
Dec. 12	Low	348	15	.14	9.3	1.0	2.9		25	2.8	7.2	79	27	7	75	6.6	90
Mar. 25, 1952	High	1,220	4.7	.34	8.3	1.0	4.2		24	2.6	7.8	a71	25	5	67	6.1	120
Mar. 26	Low	1,340	5.2	.39	8.2	1.0	2.5		21	2.2	7.1	b74	25	7	65	6.2	120
June 17	High	266	11	.31	10	1.2	2.9		32	1.9	5.4	73	30	4	75	6.4	110
June 18	Low	257	12	.34	11	1.1	2.8		33	2.0	5.9	73	32	5	77	6.5	100
Oct. 14	High	348	12	.29	8.8	1.0	1.7		19	4.0	7.0	c87	26	10	66	6.6	120
Oct. 14	Low	--	12	.29	9.0	1.1	1.8		21	3.9	6.8	d88	27	10	71	6.5	120
Dec. 16	High	357	15	.14	7.8	1.0	3.4		22	2.9	7.0	73	24	6	70	6.3	65
Dec. 16	Low	--	15	.16	7.6	.9	4.0		20	2.8	8.5	72	23	6	67	6.5	65
Apr. 14, 1953	High	634	7.8	.32	9.7	1.1	2.8		27	1.9	7.4	c76	29	7	77	6.3	100
Apr. 14	Low	--	8.1	.31	9.4	1.2	2.6		26	2.7	7.0	d79	28	7	81	6.3	120
June 23	High	114	6.3	.16	11	3.2	19		25	11	36	124	41	20	192	6.2	55
June 23	Low	--	8.8	.10	11	1.4	2.4		27	8.6	5.0	70	33	11	85	6.4	55
Sept. 15	High	47	8.0	.22	14	7.3	63		33	18	110	282	65	38	482	6.6	55
Sept. 15	Low	--	9.5	.08	11	.7	5.8		33	4.9	7.5	73	30	3	96	6.6	50
Jan. 5, 1954	High	1,130	12	.22	7.1	.6	2.5		15	4.4	6.0	e78	20	8	66	6.4	140
Jan. 5	Low	--	10	.22	7.2	.3	3.5		15	4.3	6.8	f78	19	7	62	6.4	120
Apr. 6	High	606	8.0	.22	12	1.1	.9		31	1.1	6.8	g83	34	9	81	6.7	130
Apr. 6	Low	--	7.4	.21	12	1.3	.6		32	1.2	6.2	d84	35	9	112	6.8	130
June 22	High	108	6.6	.10	17	6.5	78	2.8	30	19	135	342	69	45	607	6.3	65
June 23	Low	88	10	.08	11	.6	6.5	.5	31	3.0	10	80	30	4	106	6.4	65
Aug. 24	High	41	1.6	.02	100	220	1,880	75	39	418	3,400	6,190	1,160	1,120	10,300	6.4	34
Aug. 24	Low	--	3.2	.03	51	75	682	28	30	153	1,240	2,340	436	411	4,090	6.4	38
Oct. 26	High	77	3.9	.09	160	335	2,940	116	40	648	5,290	9,630	1,780	1,740	15,100	6.6	27
Oct. 28	Low	49	9.3	.13	24	14	150	6.2	26	40	282	562	118	97	1,060	6.7	40
Apr. 5, 1955	High	270	4.7	.17	10	.2	7.9	.1	20	3.3	14	101	26	10	108	6.9	180
Apr. 5	Low	--	7.0	.16	9.1	.3	5.1	.1	21	3.1	8.8	c89	24	7	76	6.1	160
June 14	High	92	11	.23	12	5.1	41	2.1	30	12	72	216	52	27	335	6.3	180
June 14	Low	--	12	.22	12	1.1	6.8	.6	32	3.5	10	101	34	8	108	6.4	160
Aug. 24	High	70	8.9	.28	16	14	124	4.8	35	22	225	458	99	70	863	6.7	110
Aug. 24	Low	--	12	.35	12	2.1	12	.8	33	7.1	21	133	39	12	147	6.6	120

a Organic matter present; sum of mineral constituents 42 parts per million.
b Organic matter present; sum of mineral constituents 37 parts per million.
c Organic matter present; sum of mineral constituents 44 parts per million.
d Organic matter present; sum of mineral constituents 45 parts per million.
e Organic matter present; sum of mineral constituents 41 parts per million.
f Organic matter present; sum of mineral constituents 40 parts per million.
g Organic matter present; sum of mineral constituents 46 parts per million.

COMBAHEE RIVER BASIN--Continued

COMBAHEE RIVER AT COMBAHEE LANDING NEAR YEMASSEE, S. C.

LOCATION.--7.7 miles upstream from U. S. Highway 17.
RECORDS AVAILABLE.--Chemical analyses: October 1951 to August 1955.
EXTREMES, 1951-55.--Dissolved solids: Maximum, 23,500 ppm Oct. 26, 1954; minimum, 75 ppm Mar. 26, 1952.
Hardness: Maximum, 4,230 ppm Oct. 26, 1954; minimum, 20 ppm Jan. 5, 1954.

Chemical analyses, in parts per million, October 1951 to August 1955

Date of collection	Tide	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Dissolved solids (residue on evaporation at 180°C)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25°C)	pH	Color
Oct. 2, 1951	High	163	3.9	0.09	54	102	921		42	201	1,640	3,170	554	520	5,220	6.6	60
Oct. 2	Low	--	5.1	.13	23	36	317		33	67	565	1,070	205	178	1,920	6.5	65
Dec. 11	High	338	10	.33	15	19	162		27	35	290	602	116	93	1,070	6.5	90
Dec. 12	Low	348	13	.21	9.0	2.3	17		24	5.4	30	114	32	12	155	6.6	90
Mar. 25, 1952	High	1,220	4.0	.54	7.9	1.6	9.2		23	2.9	17	87	26	7	104	6.2	120
Mar. 26	Low	1,340	4.6	.52	8.0	1.1	5.2		23	3.3	9.0	a75	24	6	72	6.1	120
June 17	High	266	7.6	.56	10	5.1	39		31	7.8	69	188	46	20	305	6.5	120
June 18	Low	257	10	.40	10	1.7	3.8		30	2.1	9.2	78	32	7	90	6.6	100
Oct. 14	High	348	10	.36	11	7.0	52		26	11	96	249	56	35	412	6.4	120
Oct. 14	Low	--	9.4	.33	8.9	2.3	11		22	5.4	22	111	32	14	124	6.4	130
Dec. 16	High	357	13	.22	13	16	128		25	29	231	503	98	78	890	6.3	65
Dec. 16	Low	--	14	.14	8.2	2.2	13		22	4.8	24	101	30	11	134	6.4	65
Apr. 14, 1953	High	634	7.3	.38	9.2	1.7	7.0		27	2.9	14	85	30	8	98	6.3	130
Apr. 14	Low	--	8.5	.32	9.2	1.3	3.1		26	2.5	7.8	76	28	7	94	6.2	120
June 23	High	114	4.2	.15	40	57	705		28	145	1,200	2,420	334	311	4,070	6.1	45
June 23	Low	--	5.4	.14	18	18	147		25	36	270	594	119	98	1,040	6.1	65
Sept. 15	High	47	2.9	.10	75	197	1,690		54	377	3,000	5,780	997	953	9,270	6.7	60
Sept. 15	Low	--	3.3	.12	27	49	436		40	87	775	1,460	269	236	2,590	6.6	60
Jan. 5, 1954	Low	1,130	9.0	.23	6.8	.8	6.5		15	4.7	12	b88	20	8	80	6.5	160
Apr. 6	High	606	5.9	.19	11	3.4	18		29	5.0	37	134	41	18	189	6.5	130
Apr. 6	Low	--	6.4	.23	11	1.6	3.4		30	2.3	10	c88	34	9	128	6.7	140
June 22	High	108	6.6	.02	66	156	1,360	55	42	335	2,500	4,600	806	772	7,680	6.4	65
June 23	Low	88	6.2	.05	33	42	414	16	31	100	740	1,410	255	230	2,590	6.3	60
Aug. 24	High	41	3.3	.04	230	643	5,410	225	82	1,280	9,680	17,900	3,220	3,150	25,500	6.8	43
Aug. 24	Low	--	.9	.02	144	398	3,210	132	55	740	5,890	10,800	2,000	1,950	16,700	6.5	38
Oct. 26	High	77	.5	.03	309	841	6,770	282	91	1,670	12,600	23,500	4,230	4,150	32,000	7.1	32
Oct. 28	Low	49	1.6	.06	223	547	4,420	194	59	1,030	8,310	15,200	2,810	2,760	22,400	6.7	28
Apr. 5, 1955	High	270	6.3	.59	18	24	208	6.2	22	50	370	850	143	125	1,370	6.0	180
Apr. 5	Low	--	7.9	.38	11	4.4	44	1.8	21	10	77	229	45	28	328	6.2	180
June 14	High	92	5.8	.13	47	105	898	37	45	188	1,600	3,200	549	512	5,210	6.7	160
June 14	Low	--	8.4	.19	21	27	239	9.8	35	41	428	911	163	134	1,570	6.3	160
Aug. 24	High	70	6.1	.31	50	139	1,180	44	51	268	2,100	4,080	698	656	6,590	6.6	100
Aug. 24	Low	--	6.5	.33	24	39	350	14	41	70	625	1,150	219	185	2,160	6.3	100

a Organic matter present; sum of mineral constituents 44 parts per million.
h Organic matter present; sum of mineral constituents 48 parts per million.
c Organic matter present; sum of mineral constituents 50 parts per million.

ILLUSTRATIONS

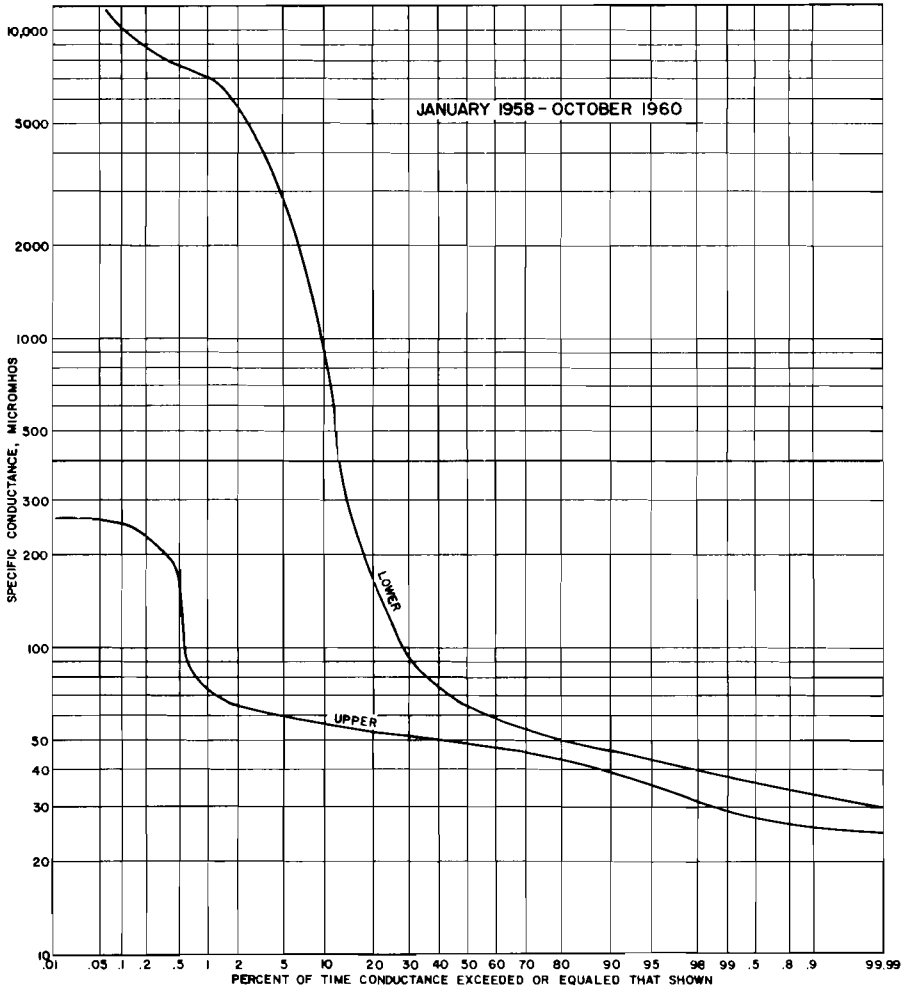


FIGURE 1. CUMULATIVE FREQUENCY CURVE FOR CONDUCTANCE OF DAILY SAMPLES FROM THE EDISTO RIVER NEAR JACKSONBORO, S.C. (UPPER AND LOWER STATIONS)

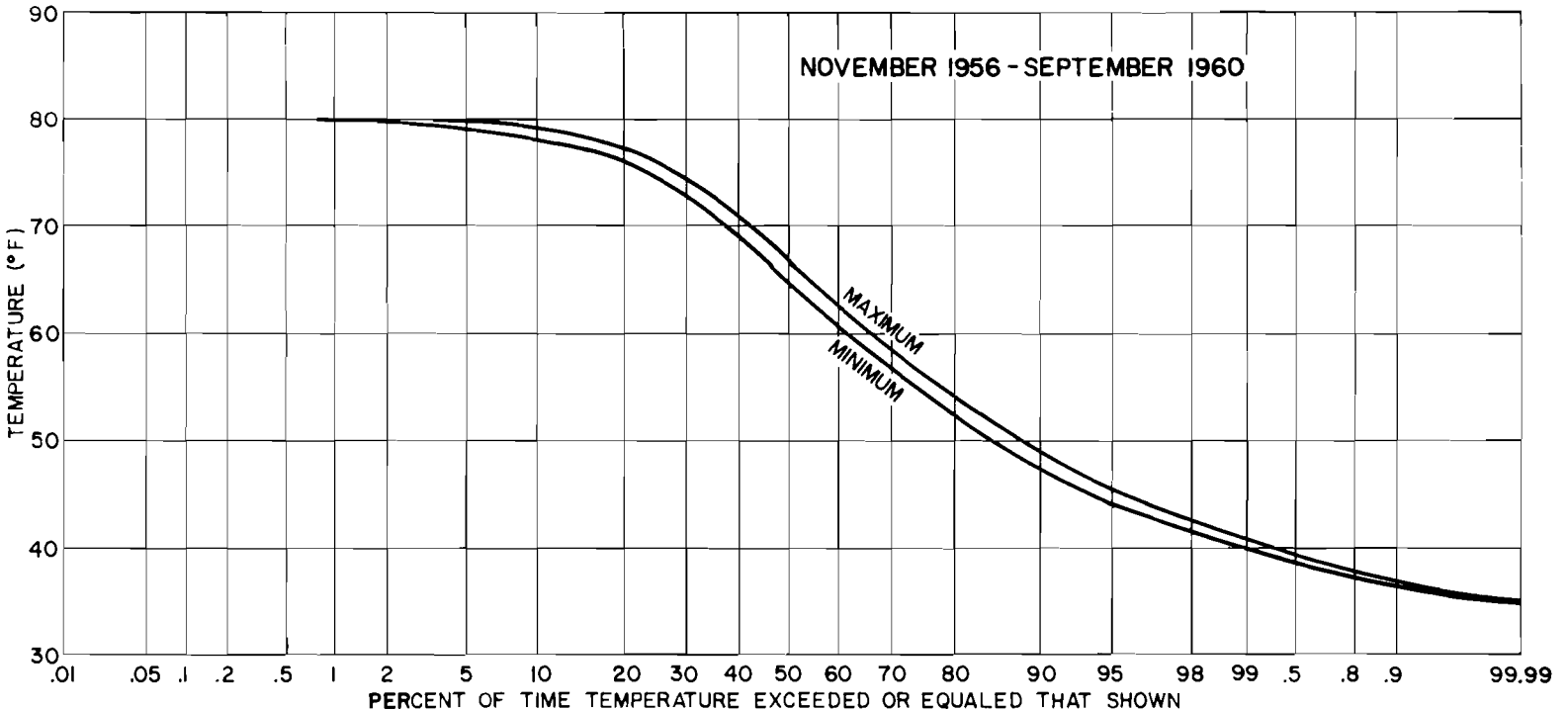


FIGURE 2. CUMULATIVE FREQUENCY CURVE FOR CONTINUOUS TEMPERATURE MEASUREMENTS FROM THE SOUTH FORK EDISTO RIVER NEAR DENMARK, S. C.

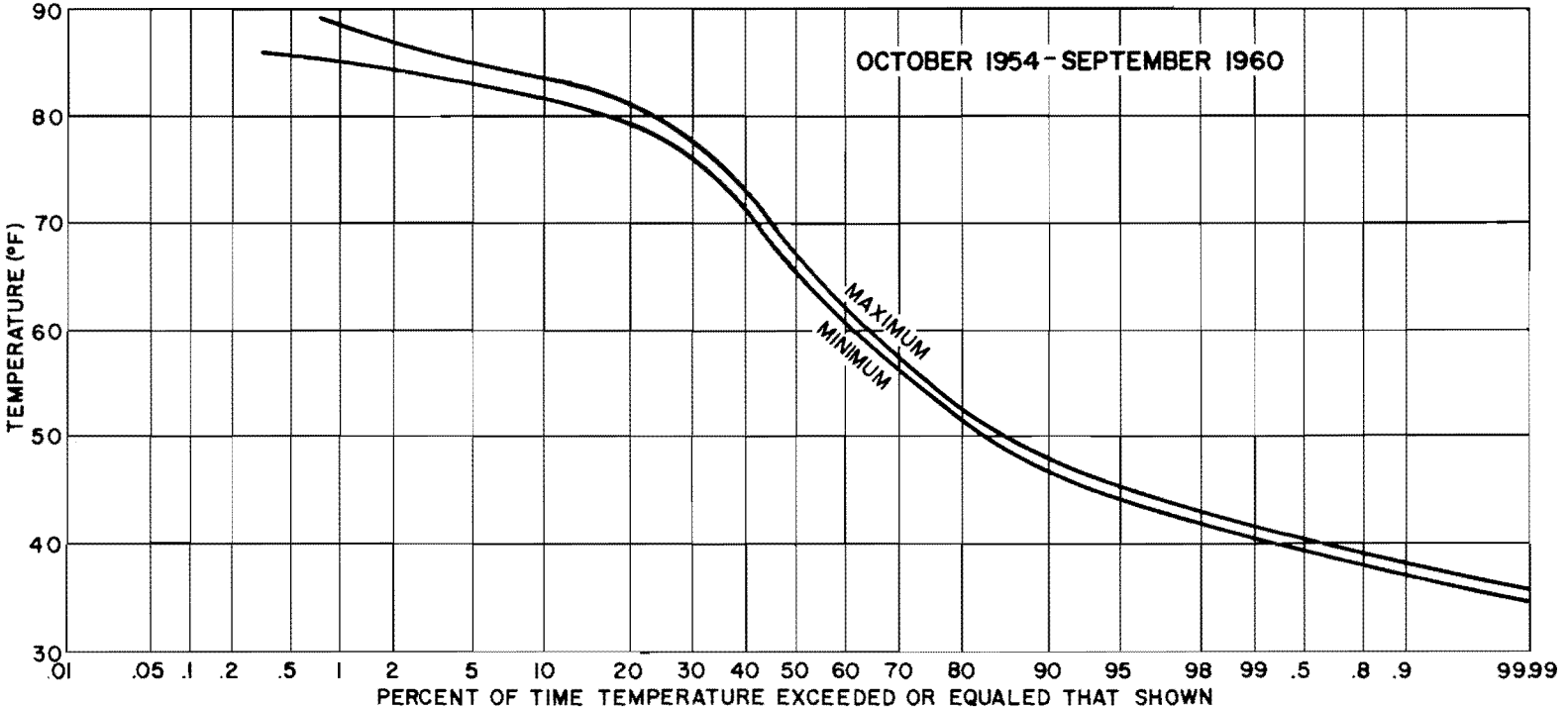


FIGURE 3. CUMULATIVE FREQUENCY CURVE FOR CONTINUOUS TEMPERATURE MEASUREMENTS FROM THE LYNCHES RIVER AT EFFINGHAM, S.C.

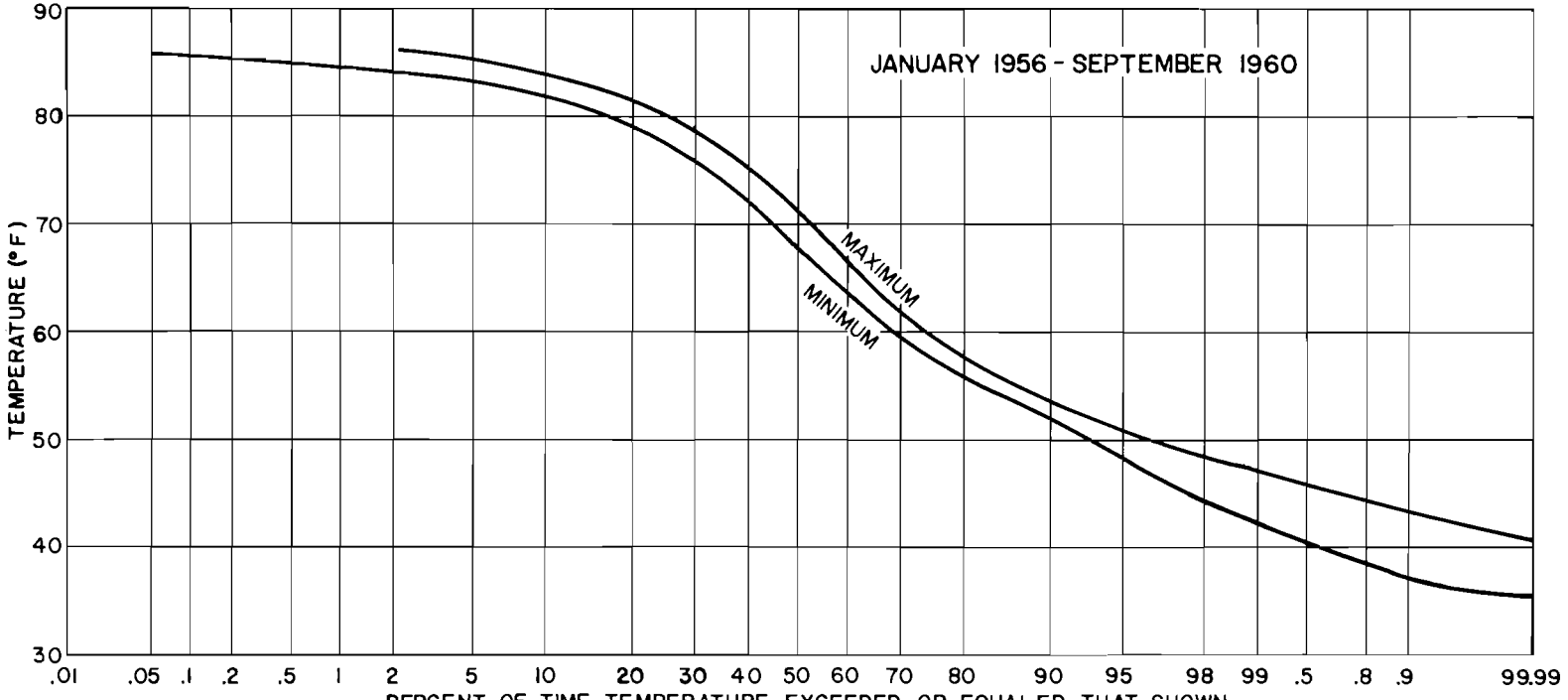
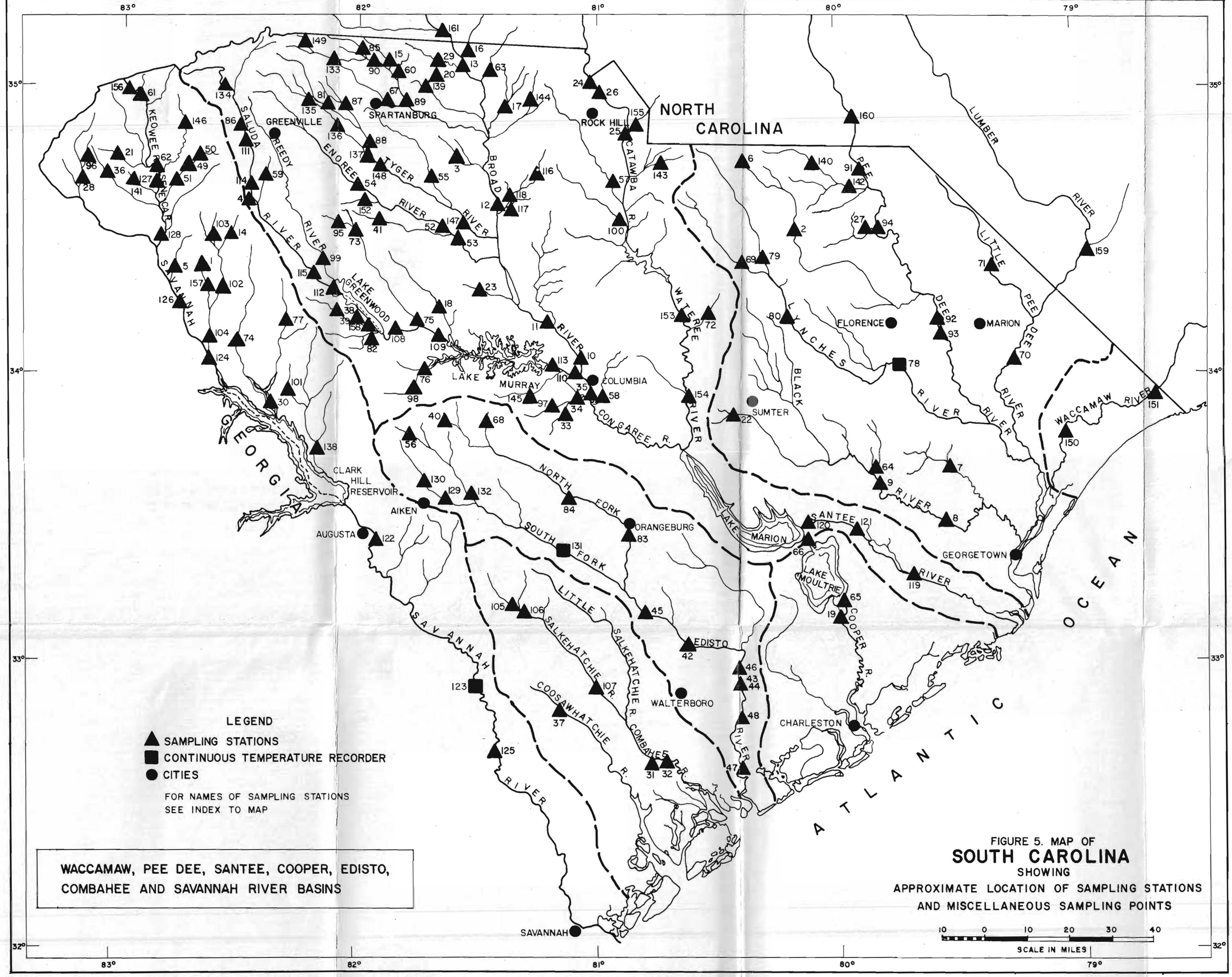


FIGURE 4. CUMULATIVE FREQUENCY CURVE FOR CONTINUOUS TEMPERATURE MEASUREMENTS FROM THE SAVANNAH RIVER AT BURTON S FERRY NEAR MILLHAVEN, GA.

VOGUE PRESS—COLUMBIA, S. C.



LEGEND

- ▲ SAMPLING STATIONS
- ■ CONTINUOUS TEMPERATURE RECORDER
- ● CITIES

FOR NAMES OF SAMPLING STATIONS SEE INDEX TO MAP

WACCAMAW, PEE DEE, SANTEE, COOPER, EDISTO, COMBAHEE AND SAVANNAH RIVER BASINS

FIGURE 5. MAP OF
SOUTH CAROLINA
SHOWING
APPROXIMATE LOCATION OF SAMPLING STATIONS
AND MISCELLANEOUS SAMPLING POINTS

SCALE IN MILES: 10 0 10 20 30 40